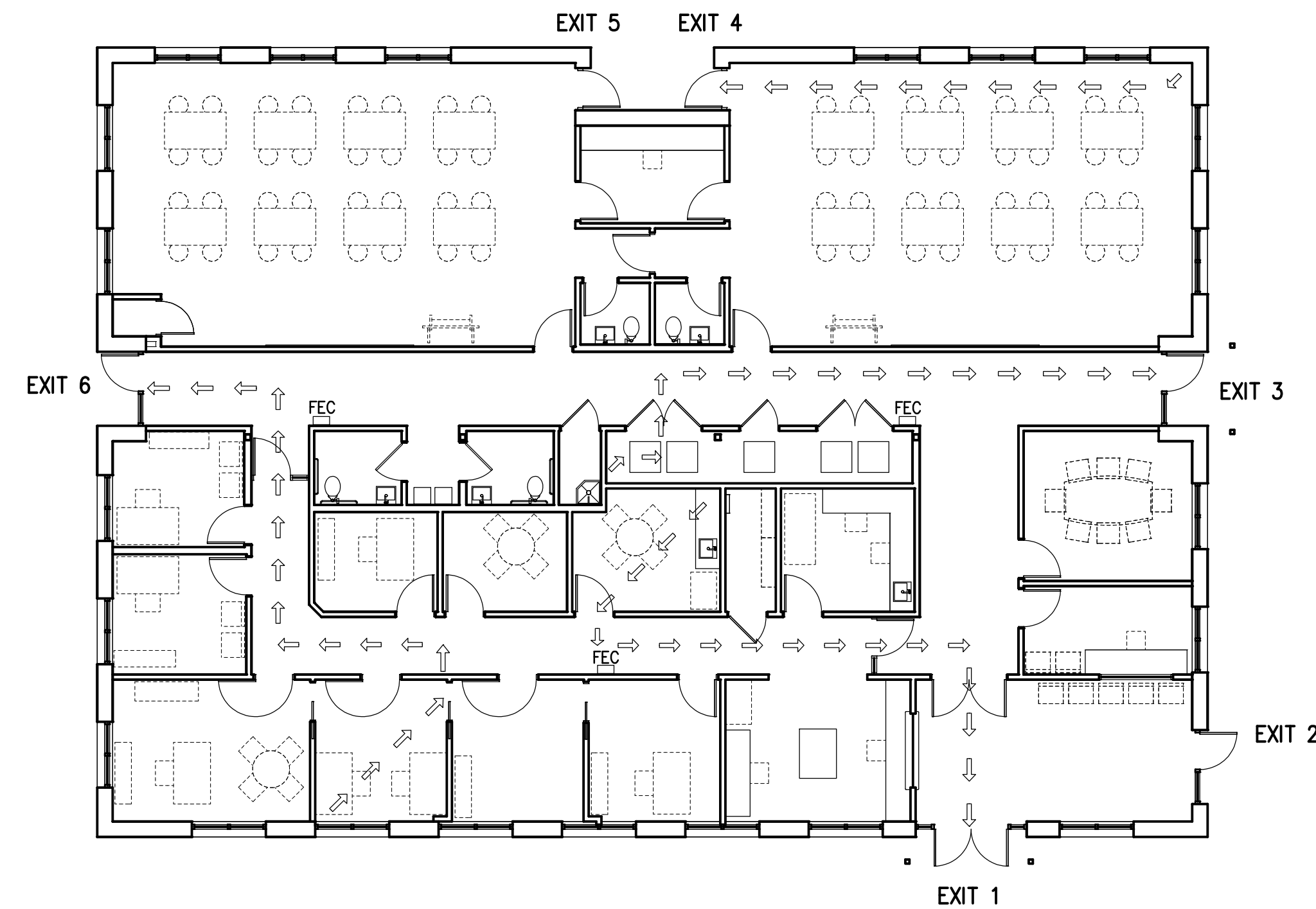


St. Mary Catholic School Admin Classroom Building

Fort Walton Beach, Florida



Life Safety Plan
1/10"=1'-0"

GRAPHIC SYMBOLS

| | | | |
|--|------------------------|--|-----------------------|
| | RIGID INSULATION | | KITCHEN EQUIPMENT |
| | BATT INSULATION | | TOILET ACCESSORY |
| | CONCRETE | | DOOR MARK |
| | GYPSUM BOARD | | EXISTING CONTOUR LINE |
| | PLYWOOD | | NEW CONTOUR LINE |
| | WOOD- ROUGH | | BROKEN LINE |
| | WOOD- FINISH | | CENTER LINE |
| | BRICK | | HIDDEN LINE |
| | CONCRETE MASONRY UNITS | | ELEVATION KEY |
| | METAL | | SECTION KEY |
| | SOIL | | ENLARGED DETAIL |

CODE SUMMARY

2023 Florida Building Code; 8th Edition
2023 Florida Fire Prevention Code; 8th Edition

Allowable Area: FBC-Table 504.3; 504.4; 506.2

| | Allowed | Actual |
|----------------------------|---|---------------|
| Educational Occupancy - E | | |
| Type V-B Sprinklered | 38,000 sq. ft. * | 5,655 sq. ft. |
| Amount of Increase 506.3.3 | $A_1 + (NS \times I_1) = A_2$ | |
| | $38,000 + (9,500 \times 0.75) = 45,125$ | |
| Number of Stories | 2 stories | 1 story |
| Height | 60 feet | 16 feet |

Occupancy Load: FBC - Table 1004.5 ; 1004.8

| Room Type | Area | Occupancy |
|------------------------------|-----------------------------|-----------|
| Classrooms | 1,758 sqft @ 20 net = 88 | |
| Support Spaces | 3,248 sqft @ 150 gross = 22 | |
| Total Occupancy = 110 | | |

Exit Requirements: FBC-Table 1006.3.2

| Personnel | Required | Actual |
|------------------|----------|--------|
| 1 - 500 persons: | 2 | 6 |

Egress Requirements:

| Requirement | Required | Actual |
|--|---|--------|
| Maximum travel distance (FBC-Table 1017.2) | 250 ft. | 64 ft. |
| Floor egress width (FBC-Table 1005.3.2) | $110 \times 0.2 / 6 \text{ exits} = 3.6"$ | 36" |
| Minimum clear opening @ doors (FBC-Section 1010.1.1) | 32" | 32" |

Fire Resistance Rating:

No fire ratings for doors or exit access corridors because of sprinklers.

Plumbing Fixtures: FBC Plumbing-Table 403.1

| Fixture | Required | Actual |
|---------------------------|---------------|--------|
| Water Closets: | | |
| Male | 1 per 50 = 2 | 2 |
| Female | 1 per 50 = 2 | 2 |
| Lavatories: | | |
| Male | 1 per 50 = 2 | 2 |
| Female | 1 per 50 = 2 | 2 |
| Drinking Fountains | | |
| Service Sink | 1 per 100 = 2 | 1 dual |
| | 1 | 1 |

LIST OF DRAWINGS

| SEQ. | SHEET # | DESCRIPTION |
|------------------------|---------|--|
| 1 | T1 | Cover Sheet |
| Civil | | |
| 2 | C1 | General Notes |
| 3 | C2 | Existing Conditions |
| 4 | C3 | Stormwater Pollution Prevention Plan (SWPPP) |
| 5 | C4 | Demolition Plan |
| 6 | C5 | Site Plan |
| 7 | C6 | Utility Plan |
| 8 | C7 | Drainage Plan |
| 9 | C8 | Grading Plan |
| 10 | C9 | Drainage Details |
| Architectural | | |
| 11 | A0.1 | Architectural Site Plan |
| 12 | A1.1 | Floor Plan |
| 13 | A1.2 | Reflected Ceiling Plan |
| 14 | A1.3 | Roof Plan |
| 15 | A2.1 | Elevations |
| 16 | A2.2 | Building Sections |
| 17 | A3.1 | Wall Sections |
| 18 | A3.2 | Canopy Details |
| 19 | A3.3 | Monument Wall Details |
| 20 | A4.1 | Doors |
| 21 | A4.2 | Enlarged Restrooms |
| 22 | A4.3 | Interior Elevations |
| 23 | A4.4 | Interior Elevations |
| 24 | A4.5 | Windows |
| 25 | A5.1 | Floor Finishes Plan |
| 26 | A6.1 | Demo & New Work Plans & RCPS - Bldg. 2 |
| Structural | | |
| 27 | S0.1 | General Notes |
| 28 | S0.2 | General Notes |
| 29 | S1.1 | Foundation Plan |
| 30 | S1.2 | Roof Framing Plan |
| 31 | S3.2 | Wall Section & Monument Wall Details |
| 32 | S5.1 | Details |
| Fire Protection | | |
| 33 | FP1.1 | Fire Protection Plan & Details |
| Plumbing | | |
| 34 | P1.1 | Sanitary Waste Plan |
| 35 | P2.1 | Domestic Water Plan |
| 36 | P3.1 | Schedules, Legends & Details |
| Mechanical | | |
| 37 | M1.1 | Mechanical New Work Plan |
| 38 | M1.2 | Mechanical Demo & New Work Plans - Bldg. 2 |
| 39 | M2.1 | Schedules, Legends & Details |
| 40 | M2.2 | Outside Air Ventilation Rates |
| Electrical | | |
| 41 | E0.1 | Schedules |
| 42 | E0.2 | General Notes & Legends |
| 43 | E1.0 | Electrical Site Plan |
| 44 | E1.1 | Lighting Plan |
| 45 | E1.2 | Demo & New Work Lighting Plans - Bldg. 2 |
| 46 | E2.1 | Power Plan |
| 47 | E2.2 | Demo & New Work Power Plans - Bldg. 2 |

PERSONNEL

OWNER:
Diocese of Pensacola-Tallahassee
Pensacola, Florida

CIVIL ENGINEER:
David W. Fitzpatrick, P.E., P.A.
Pensacola, Florida

ARCHITECT:
Quina Grundhoefer Architects, P.A.
Pensacola, Florida

STRUCTURAL ENGINEER:
Gulf Coast Engineering
Gulf Breeze, Florida

MECHANICAL ENGINEER:
H.M. Yonge & Associates, Inc.
Pensacola, Florida

ELECTRICAL ENGINEER:
H.M. Yonge & Associates, Inc.
Pensacola, Florida

FLORIDA PRODUCT APPROVAL LIST

| MANUFACTURER** | MODEL # | CATEGORY | SUBCATEGORY | APPROVAL # | VALIDATION ENTITY |
|------------------------------|----------------------|----------------|-------------------------|------------|--------------------------|
| Coral Architectural Products | FL550 | Panel Walls | Storefront | FL35066.1 | Rene J.Quiroga, P.E. |
| Coral Architectural Products | MS381 | Exterior Doors | Swinging Exterior Doors | FL29206.1 | Rene J.Quiroga, P.E. |
| GAF | Asphalt Roof Shingle | Roofing | Asphalt Shingles | FL10124.1 | John W. Knezevich, P.E. |
| W.R Grace | Ice and Water Shield | Roofing | Underlayment | FL 298.1 | PRO Asphalt Technologies |
| EFCO | Series 2701 | Windows | Casement | FL37355.1 | Steven M. Ulrich, P.E. |

** CONTRACTOR TO SUBMIT MANUFACTURER'S BASED ON SPECIFICATIONS AND PRODUCT APPROVAL NUMBERS IF DIFFERENT THAN THOSE SHOWN

Project
**St. Mary Catholic School
Admin Classroom Building**

Project No.
1325
Set No. _____
Date: _____ 4-24-26

SITE CIVIL PLANS FOR

Saint Mary Catholic Church
Admin - Classroom Building

SECTION 14, TOWNSHIP 2 SOUTH, RANGE 24
 FT WALTON BEACH, FLORIDA

GENERAL NOTES

1. THE PROJECT ENGINEER (ENGINEER OF RECORD) MUST PROVIDE TO CITY OF FT. WALTON BEACH AS-BUILT RECORD DRAWINGS FOR VERIFICATION AND APPROVAL BY CITY OF FT. WALTON BEACH 1 WEEK PRIOR TO REQUESTING A FINAL INSPECTION AND CERTIFICATE OF OCCUPANCY, OR PROVIDE "AS-BUILT" CERTIFICATION THAT THE PROJECT CONSTRUCTION ADHERES TO THE PERMITTED PLANS AND SPECIFICATIONS, THE AS-BUILT CERTIFICATION OF THE AS-BUILT RECORD DRAWING MUST BE SIGNED, SEALED, AND DATED BY A REGISTERED FLORIDA PROFESSIONAL ENGINEER.
2. THE CONTRACTOR SHALL INSTALL PRIOR TO THE START OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENTS ON THE SITE. IMPROPER SEDIMENT CONTROL MEASURES MAY RESULT IN CODE ENFORCEMENT VIOLATION.
3. THE CONTRACTOR SHALL CONTROL STORM WATER DURING ALL PHASES OF CONSTRUCTION.
4. ALL DISTURBED AREAS WHICH ARE NOT PAVED SHALL BE STABILIZED WITH SEEDING, FERTILIZER AND MULCH, HYDROSEED AND/OR SOD.
5. ALL NEW BUILDING ROOF DRAINS, DOWN SPOUTS, OR GUTTERS SHALL BE ROUTED TO CARRY ALL STORM WATER TO RETENTION/DETENTION AREAS.
6. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOWS AS-BUILT CONDITIONS OF ALL WORK INCLUDING PIPING, DRAINAGE STRUCTURES, DIMENSIONS, ELEVATIONS, GRADING, ETC. RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER OF RECORD PRIOR TO REQUESTING FINAL INSPECTION.
7. THE OWNER OR HIS AGENT SHALL ARRANGE/SCHEDULE WITH THE CITY FINAL INSPECTION OF THE DEVELOPMENT UPON COMPLETION AND ANY INTERMEDIATE INSPECTIONS AT (850) 595-3472. AS BUILT CERTIFICATION IS REQUIRED PRIOR TO REQUEST FOR FINAL INSPECTION/APPROVAL.
8. NOTIFY SUNSHINE UTILITIES 48 HOURS IN ADVANCE PRIOR TO DIGGING WITHIN R/W 1-800-432-4770.
9. ALL ASPECTS OF THE STORMWATER/DRAINAGE COMPONENTS AND/OR TRANSPORTATION COMPONENTS AS PER CITY OF FT. WALTON BEACH REQUIREMENTS SHALL BE COMPLETED PRIOR TO ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY.
10. NO DEVIATIONS OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM BOTH THE DESIGN ENGINEER AND THE CITY OF FT. WALTON BEACH. AND DEVIATIONS MAY RESULT IN DELAY IN OBTAINING A CERTIFICATE OF OCCUPANCY.
11. THE CONTRACTOR SHALL NOTIFY FDOT 48 HOURS IN ADVANCE PRIOR TO INITIATING ANY WORK IN THE STATE RIGHT OF WAY.
12. ALL NON-HANDICAP PARKING SPACE LINES ARE TO BE WHITE.
13. ALL BUILDINGS AND MAILBOXES SHOULD DISPLAY THE CORRECT STREET NUMBER. THIS NUMBER MUST BE AT LEAST 3 INCHES IN HEIGHT. PROPERLY DISPLAYING THE ADDRESS WILL ENABLE FIRE, POLICE, AND AMBULANCE PERSONNEL TO LOCATE THE BUILDING IN AN EMERGENCY.
14. DAMAGE TO EXISTING ROADS DURING CONSTRUCTION WILL BE REPAIRED BY THE DEVELOPER PRIOR TO FINAL "AS-BUILT" SIGN OFF FROM THE CITY.
15. THE CONTRACTOR/OWNER IS TO ENSURE THAT ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AFTER EACH 1/4" RAINFALL EVENT OR AT LEAST WEEKLY. IF AN NPDES PERMIT IS REQUIRED FOR THIS PROJECT, THE CONTRACTOR SHALL DOCUMENT SUCH INSPECTIONS AND EROSION CONTROL MAINTENANCE EFFORTS; INSPECTION RECORDS SHALL BE PROVIDED TO THE NPDES PERMIT APPLICANT FOR PROPER REPORTING TO FDEP.
16. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING TO THE DISTRICT NOTICE OF CONSTRUCTION COMMENCEMENT CONTRACTOR IS TO CONTACT ENGINEER OF RECORD FOR APPROPRIATE CONSTRUCTION COMMENCEMENT FORM. ENGINEER OF RECORD IS RESPONSIBLE FOR AS-BUILT CERTIFICATIONS FOR THE PROJECT WHEN COMPLETED.
17. ALL SIGNAGE WILL REQUIRE VALID CITY OF FT. WALTON BEACH SIGN PERMIT(S) AND MUST ADHERE TO THE REQUIREMENTS OF THE CITY OF FT. WALTON BEACH LAND DEVELOPMENT CODE.
18. ALL ADEQUATE TREE PROTECTION MEASURES AND BARRICADES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE AND MAINTAINED IN GOOD WORKING ORDER UNTIL PROJECT IS COMPLETE AND SITE BECOMES STABILIZED.
19. RETENTION/DETENTION AREAS SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT MAY INCREASE STORMWATER RUNOFF RATES. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES OF CONSTRUCTION AND TAKE ADEQUATE MEASURES TO PREVENT THE EXCAVATED POND FROM BLINDING DUE TO SEDIMENTS.
20. DEVELOPER/CONTRACTOR SHALL RESHAPE PER PLAN SPECIFICATIONS, CLEANOUT ACCUMULATED SILT, AND STABILIZE RETENTION/DETENTION POND(S) AT THE END OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND PRIOR TO REQUEST FOR INSPECTION.

LEGAL DESCRIPTION

A PARCEL OF LAND DESCRIBED AS COMMENCING 1650.00 FEET WEST AND 450.00 FEET NORTH OF THE SOUTHEAST CORNER OF THE SOUTHEAST QUARTER OF SECTION 14, TOWNSHIP 2 SOUTH, RANGE 24 WEST, OKALOOSA COUNTY, FLORIDA, PROCEED WEST 704.86 FEET AND NORTH 30.00 FEET TO THE POINT OF BEGINNING; THENCE NORTH 00°00'00" EAST (REFERENCE BEARING) 843.95 FEET ALONG THE EAST LINE OF SEA BREEZE SIXTH ADDITION, AS RECORDED IN PLAT BOOK 3, PAGE 53, OFFICIAL RECORDS; THENCE NORTH 89°35'00" EAST, 990.15 FEET TO THE NORTHWEST CORNER OF LOT 18 IN SEA BREEZE FOURTH ADDITION, AS RECORDED IN PLAT BOOK 2, PAGE 158, OFFICIAL RECORDS; THENCE SOUTH 00°21'00" WEST ALONG THE WEST LINE OF SAID LOT 18, 125.00 FEET; THENCE NORTH 89°22'26" EAST ALONG THE SOUTH LINE OF SAID LOT 18, 31.30 FEET; THENCE SOUTH 16°10'44" EAST, 97.04 FEET; THENCE SOUTH 00°21'00" WEST, 588.08 FEET; THENCE NORTH 87°08'00" WEST, 295.29 FEET; THENCE NORTH 89°39'00" WEST, 50.00 FEET; THENCE SOUTH 00°42'00" EAST, 4.58 FEET; THENCE SOUTH 60°02'00" WEST, 112.02 FEET; THENCE NORTH 89°58'00" WEST (NORTH 89°58'41" WEST, MEASURED), 602.84 FEET (602.20 FEET, MEASURED), TO THE POINT OF BEGINNING; CONTAINING 19.68 ACRES, MORE OR LESS; ALL IN OKALOOSA COUNTY, FLORIDA.



VICINITY MAP
 (NOT TO SCALE)

| SITE INFORMATION | |
|---------------------|---|
| PROPERTY REFERENCE# | 14-2S-24-0000-0038-0000 14-2S-24-221E-000H-0010 14-2S-24-221E-000G-0190 |
| ZONE | CF COMMUNITY FACILITIES |
| FLU | CIU CIVIC, INSTITUTIONAL & UTILITY |
| SITE ADDRESS | 110 ST. MARY AVE SW |

OWNER AND DEVELOPER
DIOCESE OF PENSACOLA TALLAHASSEE

11 N. B STREET
 PENSACOLA, FL 32502

ENGINEER-OF-RECORD
DAVID W. FITZPATRICK
 PROFESSIONAL ENGINEER, PA
 10250 N. PALAFOX HWY.
 PENSACOLA, FL 32534
 PHONE: (850) 476-8677
 FAX: (850) 476-7708
 FITZPATRICK@FITZENG.COM

SURVEYOR
MERRILL PARKER SHAW, INC.
 FLORIDA CORPORATION # 7174
 4928 N. DAVIS HWY
 PENSACOLA, FL 32503
 (850) 478-4923

SHEET INDEX

- 1 - COVER
- 2 - EXISTING CONDITIONS
- 3 - DEMOLITION PLAN
- 4 - SWPPP
- 5 - SITE PLAN
- 6 - UTILITY PLAN
- 7 - DRAINAGE PLAN
- 8 - GRADING PLAN
- 9 - LANDSCAPE PLAN
- 10 - DETAILS - RETENTION POND

PERMIT SET
 NOT RELEASED FOR CONSTRUCTION

Erosion and Sedimentation Controls

Erosion and sedimentation from the construction site shall be controlled at all times using Best Management Practices (BMPs). Perimeter controls shall be installed prior to clearing activities or any construction activity that disturbs soils. Installation of those controls may be staged to correspond with the clearing and construction schedule. Immediate after clearing activities appropriate controls shall be installed to limit and minimize the velocity of stormwater runoff over unprotected soils. Temporary BMPs shall be used as necessary inside the perimeter controls as the construction progresses. Perimeter controls shall be actively maintained until final stabilization of those portions of the site uphill of the perimeter controls. Temporary controls shall be removed when stabilization is achieved or when necessary for the next stage of construction. Controls shall be consistent with the performance standards for erosion and sedimentation control as set forth in Section 62-40.432 F.A.C.

Stabilization and Structural Practices

Stabilization practices may include, but not limited to, temporary seeding, mulching, geotextiles, permanent sod and preservation of existing vegetation. Preservation of the existing vegetation should always be the first choice BMP. Where disturbed soils are to remain for extended periods, temporary seeding should be considered prior to final sod stabilization. A record shall be maintained of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site and when stabilization measures are initiated. Stabilization measures shall be initiated as soon as practicable, but in no case more than 14 days, in those areas of the site where construction activities have temporarily or permanently ceased.

Structural practices shall divert flows from exposed soils, store flows, retain sediment on-site, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include, but not limited to, silt fences, earth dikes, diversion swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems and temporary or permanent sediment basins.

Stormwater Management

Prior to any major grading activity, the stormwater detention basin shall be constructed.

As the grading activities progress, a depressed area shall be constructed around inlets surrounded by hay bales for inlet protection. These depressed areas shall act as sediment basins. Runoff from uphill areas shall be directed to these inlets, where feasible, by diversion swales.

The proposed swales may require temporary seeding and check dams to minimize velocities and avoid excessive erosion. As the construction progresses, each installed storm inlet shall be protected by hay bales.

Silt fences, and haybales if necessary, shall be installed across the outfalls until final stabilization is achieved. Erosion control facilities shall actively maintained throughout the course of construction and shall remain until final stabilization is achieved and acceptance by the owner.

Controls for Other Potential Pollutants

A materials management area shall be designated on-site for protected storage of chemicals, solvents, fertilizers and other potentially toxic materials. Storage areas can become a major source of risk due to possible mishandling of materials and accidental spills. An inventory should be compiled and maintained of the storage area and the site. Special care should be taken to identify any materials that have the potential to come into contact with stormwater.

Petroleum products such as oil gasoline, lubricants and asphaltic substances should be handled carefully to minimize their exposure to stormwater. These management practices should be used to reduce the risks of using petroleum products:

- * Have equipment available to contain and clean up petroleum spills in fuel storage areas or on board maintenance and fueling vehicles.
- * Where possible, store petroleum products and fuel vehicles in covered areas and construct dikes to contain any spills.
- * Contain and clean up petroleum spills immediately.
- * Perform preventative maintenance for on-site equipment to prevent leakage.
- * Apply asphaltic substances properly according to the manufacturer's instructions.

Hazardous products including, but not limited to, paints, acids for cleaning masonry surfaces, cleaning solvents, chemical additives used for soil stabilization, and concrete curing compounds should be properly handled. These practices will help avoid pollution of stormwater by these materials:

- * Keep equipment to contain and clean up spills of hazardous materials in the areas where the materials are stored.
- * Contain and clean up spills immediately after they occur.
- * Keep materials in a dry, covered area.
- * Store materials in the original manufacturer's containers whenever possible, because special handling instructions usually are printed on the containers.

Pesticides include insecticides, rodenticides, and herbicides that are commonly used on construction sites. These management practices will reduce the amounts of pesticides that could contact stormwater:

- * Handle pesticides as infrequently as possible.
- * Store materials in the original manufacturer's containers whenever possible, because special handling instructions usually are printed on the containers.
- * Observe all applicable federal, state and local regulations when using, handling, or disposing of pesticides.
- * Store pesticides in a dry, covered area.
- * Provide curbs or dikes to contain spills.
- * Have measures on site to contain and clean up spills.
- * Strictly follow recommended application rates and methods.

Fertilizers and detergents usually contain nutrients that can be a major source of pollution in stormwater. These practices should be used to reduce the risks of nutrient pollution:

- * Limit the application of fertilizers to the minimum area and the minimum recommended amounts.
- * Reduce exposure of nutrients to stormwater runoff by working the fertilizer into the soil to a depth of 4 to 6 inches.
- * Apply fertilizer more frequently, but at lower application rates.
- * Limit hydroseeding in which lime and fertilizers are applied to the ground surface in one application.
- * Implement good erosion and sediment control to help reduce the amount of fertilizer lost as a result of erosion.
- * Limit the use of detergents on the site. Wash water containing detergents should not be discharged to the stormwater management system.
- * Apply fertilizer and use detergents only in the recommended manner and amounts.

Proper management and disposal of building materials and other construction site wastes are an essential part of pollution prevention. Construction wastes include surplus or refuse building materials as well as hazardous wastes. Management practices for these wastes include trash disposal, recycling, material handling, and spill prevention and clean up. These practices should provide for proper disposal of construction wastes:

- * Designate a waste disposal area on the site.
- * Provide an adequate number of containers with lids or covers that can be placed over the container prior to rainfall. Locate containers in covered areas, where possible.
- * Arrange for scheduled waste pick up. Adjust waste collection schedule as necessary to prevent overflow of the containers.
- * Ensure that construction waste is collected, removed, and disposed of only at authorized disposal areas in compliance with applicable State and/or local waste disposal regulations.

Offsite vehicle tracking of sediments and the geration of dust shall be minimized. A stabilized construction access road shall be utilized to reduce off-site tracking. Off-site sediment removal should be conducted at a frequency necessary to minimize impacts. Vehicle wash area should be considered if off-site tracking becomes excessive.

The construction site must have temporary sanitary sewer facilities for on-site personnel. Portable facilities may be utilized throughout the site. Licensed domestic waste haulers must be contracted to regularly remove the sanitary wastes and to maintain the facilities in good working order. The temporary construction trailer may have sanitary sewer facilities with a holding tank. A licensed domestic waste hauler shall also service this facility. An on-site septic system for the construction trailer in not allowed. Temporary sanitary sewer facilities shall be permitted by the local building department in accordance with applicable State and local regulations.

Controls of pollutants shall be maintained throughout construction period and until final stabilization is achieved. Qualified personnel shall inspect all points of discharge and all disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural controls, and locations where vehicles enter or exit the site at least once every seven calendar days and within 24 hours of the end of every storm event that produces at least 0.25 inches of rainfall. Where sites have been finally stabilized, such inspection shall be conducted at least once every month until a Notice of Termination has been submitted.

- * Stabilization Measures - Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of or the potential for, pollutants leaving the site. The inspection should reveal whether the area was stabilized correctly, whether there has been damage to the area since it was stabilized, and what should be done to correct any problems.
- * Structural Controls - Silt fences, hay bales and other erosion control measures shall be inspected regularly for proper positioning, anchoring, and effectiveness in trapping sediments. The inspection should reveal whether the control was installed correctly, whether there has been damage to the control since installation, and what should be done to correct any problems. Sediment should be removed from the uphill side of the silt fence and the fence should be reconstructed as necessary. Hay bales shall be added or replaced as necessary to provide effective control.

* Discharge Points - Discharge points shall be inspected to determine whether erosion control measures are effective in preventing significant amounts of pollutants from leaving the site. Silt fences and hay bales shall be maintained or replaced as necessary. The inspection should reveal whether the on-site BMPs are effective, and what should be done to increase the effectiveness.

* Construction Entrances - Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking. The inspection should reveal whether the stabilization of the construction entrance is effective, and what should be done to increase the effectiveness.

* Areas Used for Storage of exposed Materials - These are locations where construction materials (including excavated soils) are stored. The inspection should reveal the potential for excessive erosion and sedimentation, and what actions should be implemented to reduce the risks of pollution.

Based on the result of the inspection, all maintenance operations needed to assure proper function of all controls, BMPs, practices or measures identified in this Plan shall be done in a timely manner, but in no case later than 7 calendar days following the inspection.

A Report summarizing the scope of each inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations related to the implementation of the stormwater pollution prevention plan, and modifications to the stormwater pollution prevention plan shall be prepared and retained as part of the stormwater pollution prevention plan for at least three years from the date that the site is finally stabilized. Such report shall identify any incidence of non-compliance.

Contractor Requirements

The contractor must have technical expertise in erosion prevention and sediment control. The contractor must at all time maintain erosion control methods that prevent any violation of the NPDES program.

Faulty Installation and/or Poor Maintenance

Most noncompliance occurs because measures were not installed correctly or maintained properly, or both. Determining the reason why the measures are failing requires technical knowledge about the devices and how to construct them properly. Contractors failure to control erosion, sedimentation or turbidity both onsite and offsite is not acceptable. Failure to do so may result in possible fines and/or termination from the site without payment for construction progress.

Control of non-stormwater discharges

It is expected that the following non-stormwater discharges may occur from the site during construction period: water from water line flushing, pavement wash water (where no spills or leaks of toxic or hazardous materials have occurred), and uncontaminated groundwater (from dewatering excavation). If said discharges do occur, they will be directed to the temporary sediment basin prior to discharge. Turbid water from the stormwater pond shall not be pumped directly into either of the receiving waters. Any pumped water from the stormwater pond shall be treated so as to not allow a discharge of polluted stormwater. Treatment can include silt fences, settling ponds, the proper use of flocculating agents or other appropriate means.

Compliance

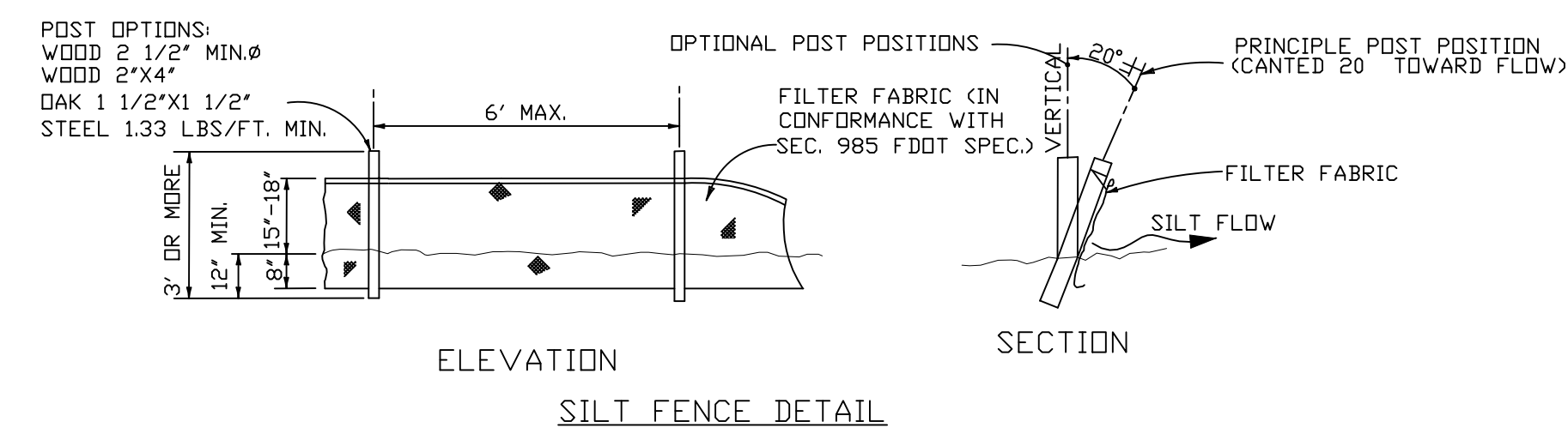
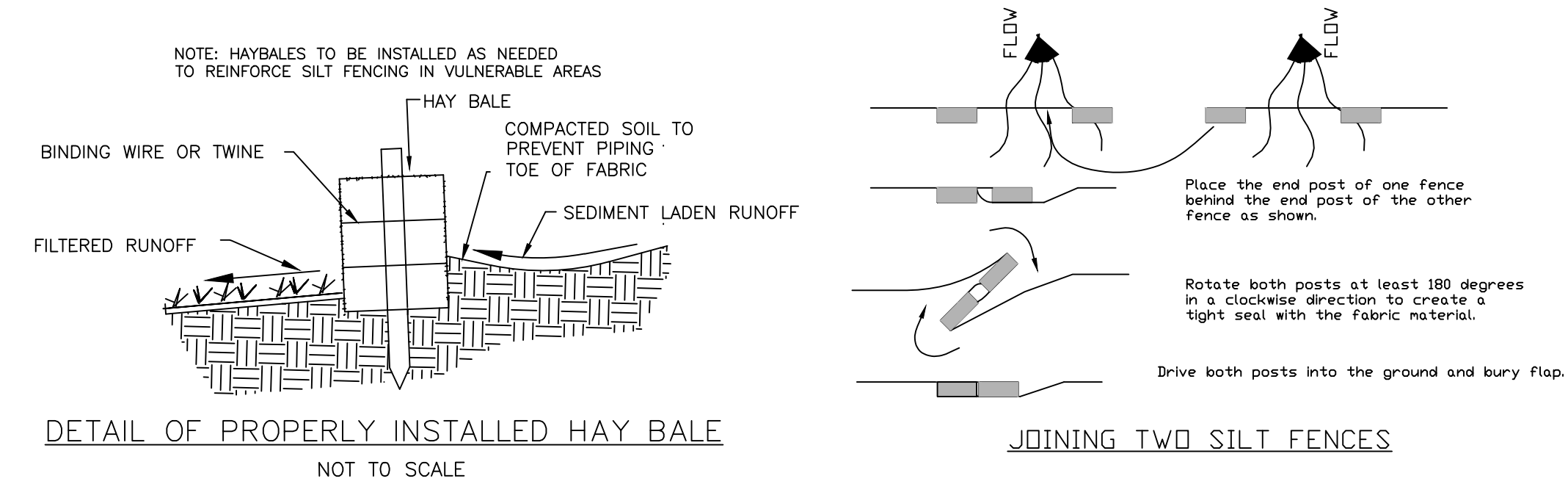
Remember that the goal of the program is to prevent accelerated erosion and off-site sedimentation. As the contractor, you are the first person to determine if the performance standards and intent of the rule are being met. You are the key person in ensuring that the construction site is evaluated fairly and consistently and that you keep the site in compliance.

The erosion and sediment control rules are performance oriented. That is, the measures used at a construction site must be effective in controlling erosion and preventing off-site sedimentation for the site to be in compliance. Following an approved plan and installing the control measures may not be enough for a site to be in compliance with the rules. If erosion and off-site sedimentation occur, the contractor will be responsible for installing additional measures to correct any problem associated with compliance of the NPDES permit or any other permit required for the site construction. The contractor will also be completely responsible for any fines levied by any governing agency on the project during construction.

The rules are also flexible, allowing the contractor to decide the most economical and effective means of erosion control. This encourages the use of innovative techniques and specifically designed erosion control systems. The contractor is the key individual in making this kind of performance based rule work because the contractor is the first person to recognize performance failures and remedy the problems.

The contractor's job is to:

1. Determine that an erosion and sediment control plan for the site has been approved.
2. Determine that all specified practices have been installed and are being maintained according to the plan.
3. Determine that both on-site and off-site sedimentation, erosion or turbidity is being prevented. If the contractor finds deficiencies, appropriate action must be taken to attain compliance.



DAVID W. FITZPATRICK

PROFESSIONAL ENGINEER, P. E.
BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE # 00008423
10250 NORTH PARKWAY STREET
PENSACOLA, FL 32534
PH: (850)476-8677 FAX: (850)476-7708

ST. MARYS CATHOLIC SCHOOL
ADMIN - CLASSROOM BUILDING

SWPPP

| DATE | REVISION | NUMBER |
|------|----------|--------|
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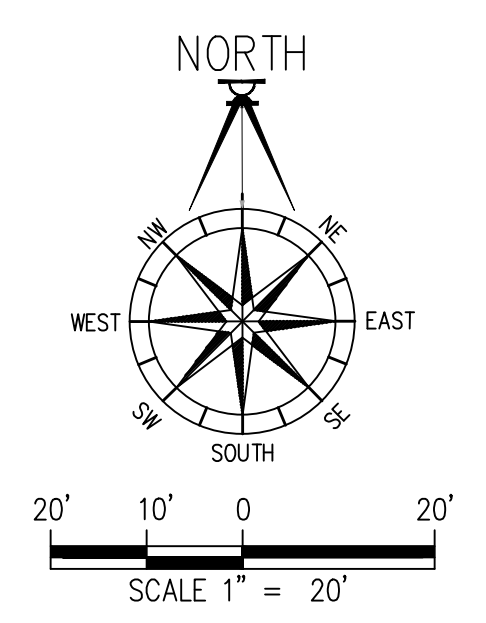
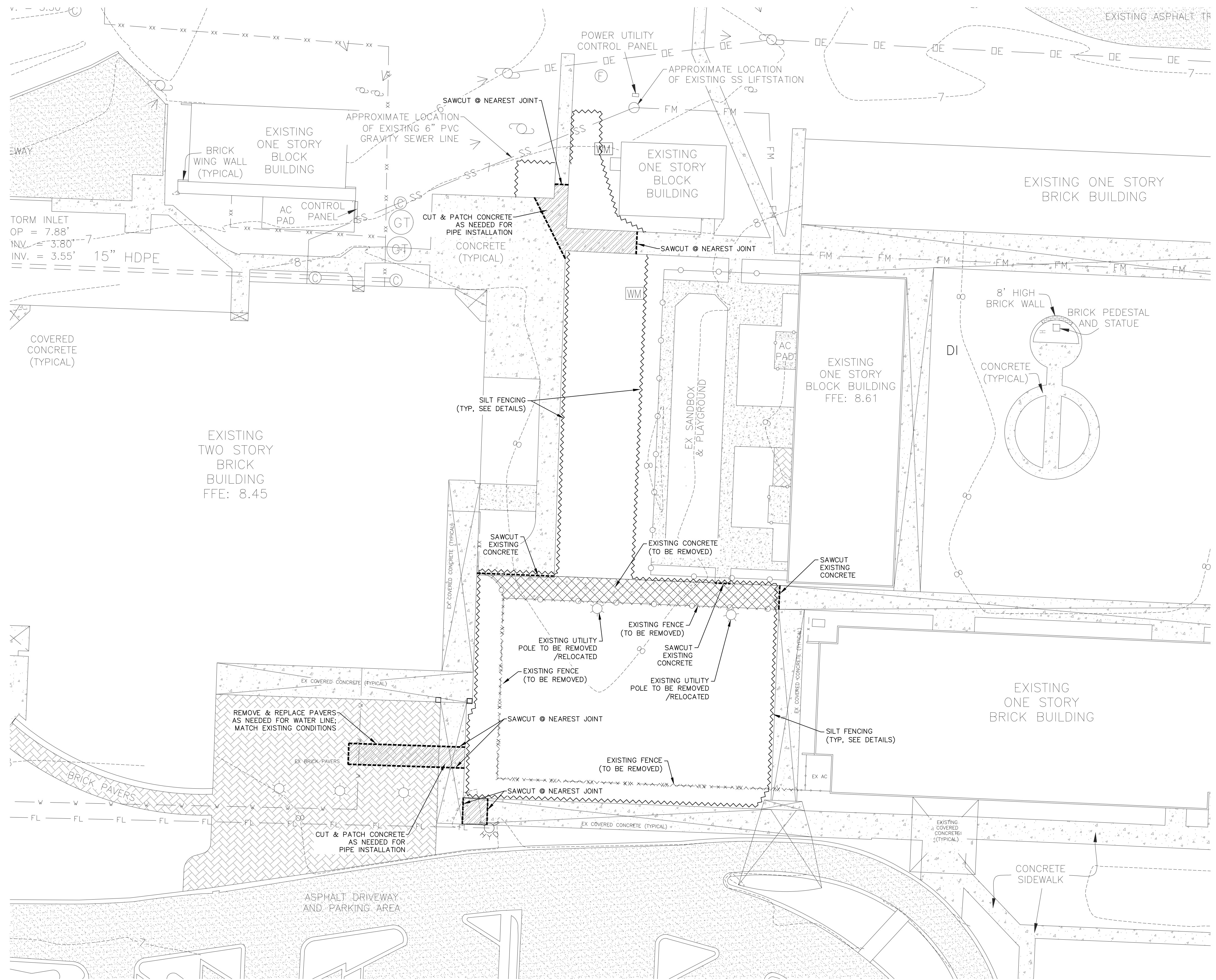
DRAWN BY:
A. BURKETT

DESIGNED BY:
D. FITZPATRICK

SIGNATURE & SEAL

DATE:
PROJECT NUMBER: 26-003
PLOT DATE: 4/24/26
SHEET C3 OF C9

PERMIT SET
NOT RELEASED FOR CONSTRUCTION



DAVID W. FITZPATRICK
 PROFESSIONAL ENGINEER, P. A.
 BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE # 00008423
 10250 NORTH PARSON STREET
 PENSACOLA, FL 32534
 PH: (850)476-8677 FAX: (850)476-7708

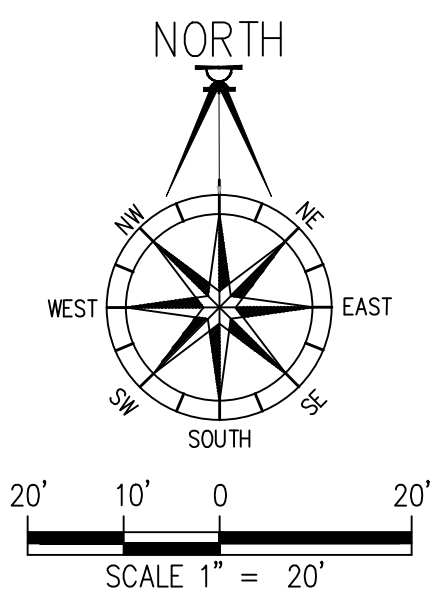
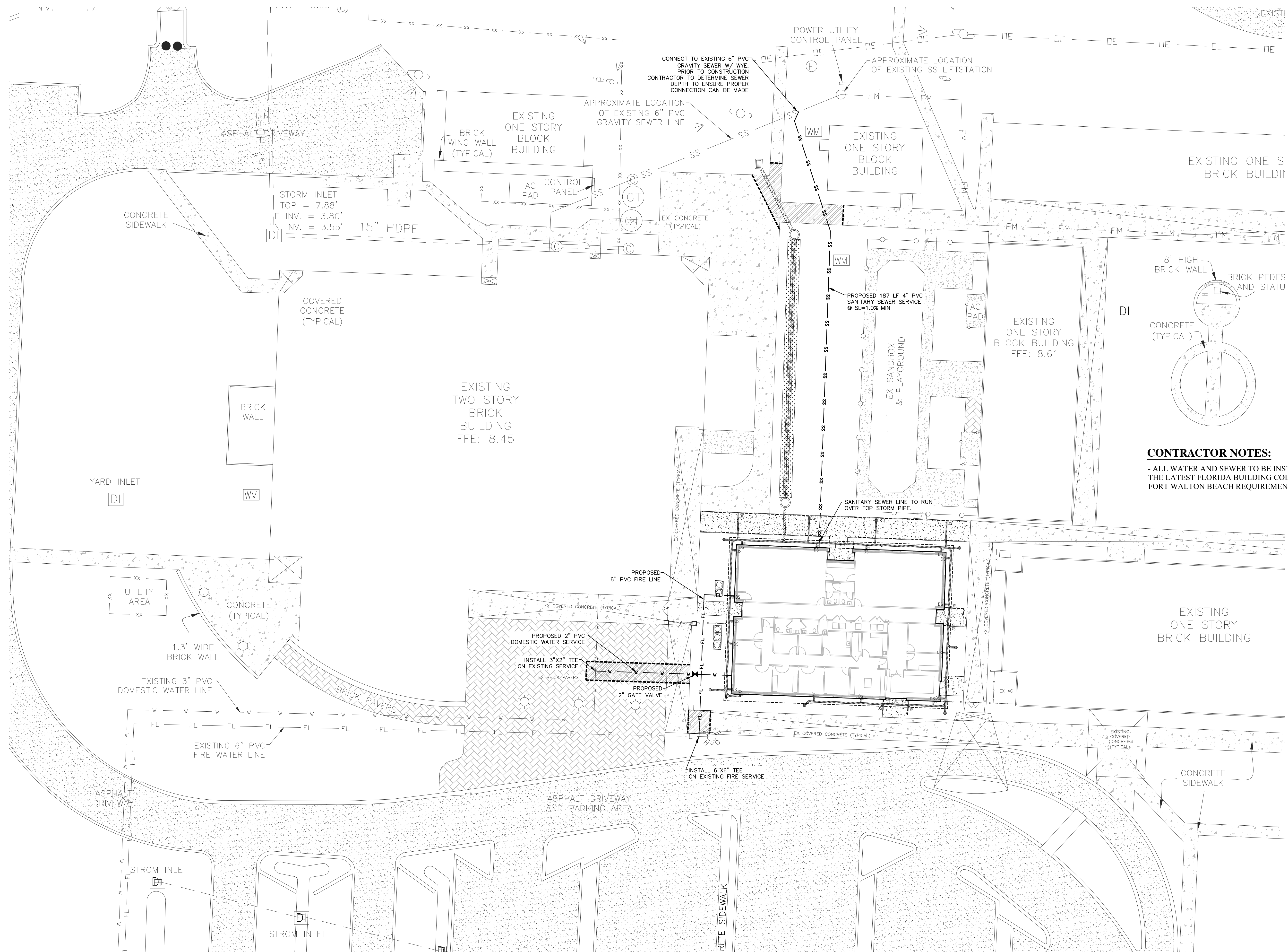
**ST. MARYS CATHOLIC SCHOOL
 ADMIN - CLASSROOM BUILDING**
 DEMOLITION PLAN

| NUMBER | REVISION | DATE |
|--------|----------|------|
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| | | |

DRAWN BY:
A. BURKETT
 DESIGNED BY:
D. FITZPATRICK
 SIGNATURE & SEAL

DATE:
PROJECT NUMBER: 26-003
 PLOT DATE: 4/24/26
 SHEET C4 OF C9

PERMIT SET
 NOT RELEASED FOR CONSTRUCTION



CONTRACTOR NOTES:
 - ALL WATER AND SEWER TO BE INSTALLED PER THE LATEST FLORIDA BUILDING CODE & CITY OF FORT WALTON BEACH REQUIREMENTS.

DAVID W. FITZPATRICK
 PROFESSIONAL ENGINEER, P. E.
 BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE # 00008423
 10250 NORTH PARKWAY STREET
 PENSACOLA, FL 32534
 PH: (850)476-8677 FAX: (850)476-7708

**ST. MARYS CATHOLIC SCHOOL
 ADMIN - CLASSROOM BUILDING**
 UTILITY PLAN

| DATE | REVISION |
|------|----------|
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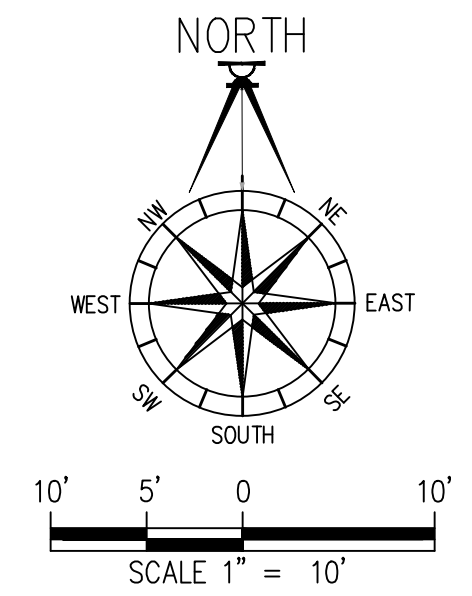
DRAWN BY:
A. BURKETT
 DESIGNED BY:
D. FITZPATRICK
 SIGNATURE & SEAL

PERMIT SET
 NOT RELEASED FOR CONSTRUCTION

DATE:
PROJECT NUMBER: 26-003
 PLOT DATE: 4/24/26
 SHEET C6 OF C9

CONTRACTOR NOTE:

- ALL SIDEWALKS, HANDICAP PARKING SPACES,
AND ACCESS AISLES TO BE ADA COMPLIANT.



DAVID W. FITZPATRICK

PROFESSIONAL ENGINEER, P. A.
BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE # 00008423
10250 NORTH PALM FOX STREET
PENSACOLA, FL 32514
PH: (850)476-8677 FAX: (850)476-7708

**ST. MARYS CATHOLIC SCHOOL
ADMIN - CLASSROOM BUILDING**

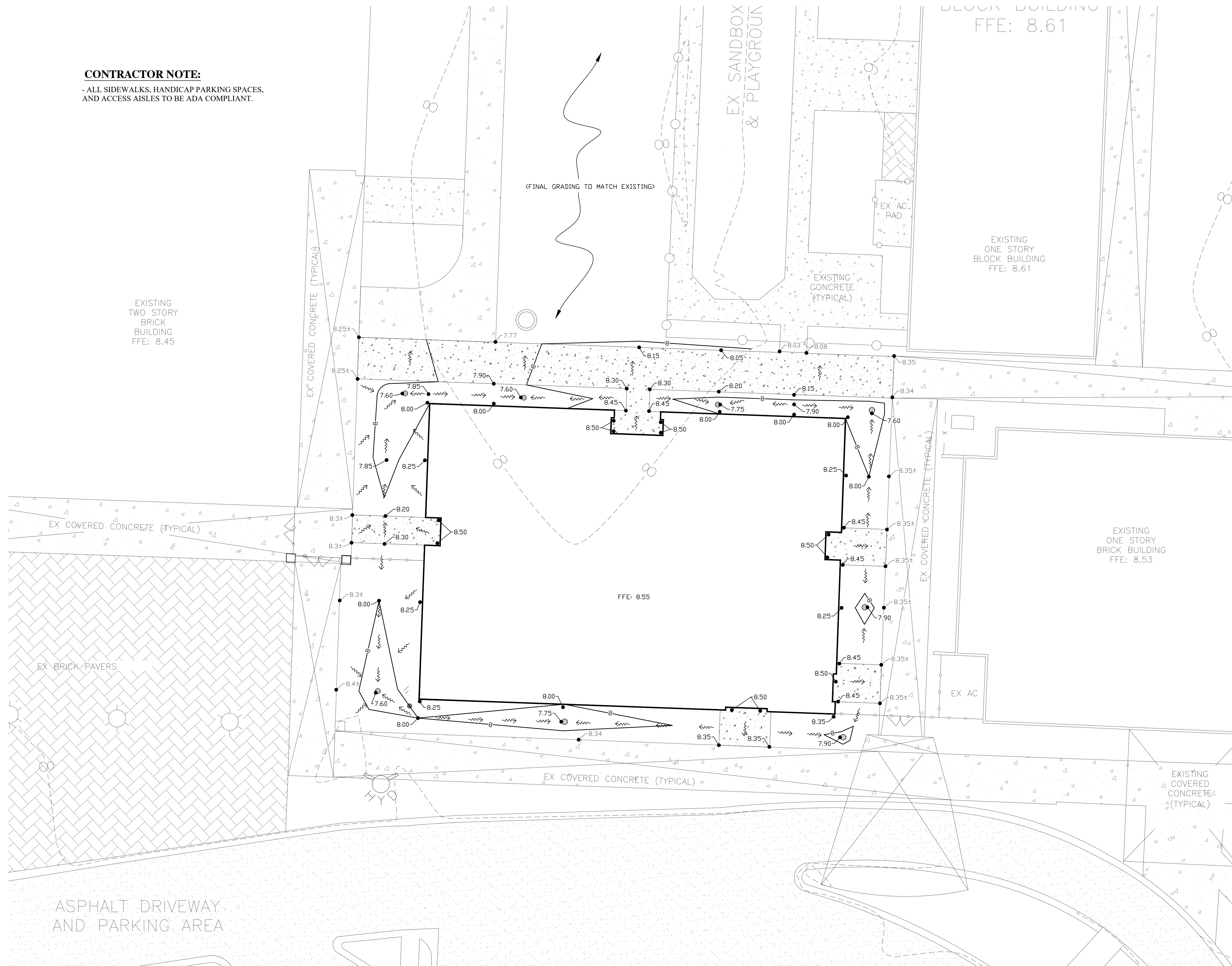
GRADING PLAN

| DATE | REVISION | NUMBER |
|------|----------|--------|
| | | |
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| | | |

DRAWN BY:
A. BURKETT
DESIGNED BY:
D. FITZPATRICK

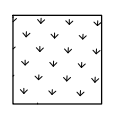
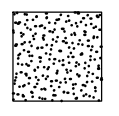



SIGNATURE & SEAL

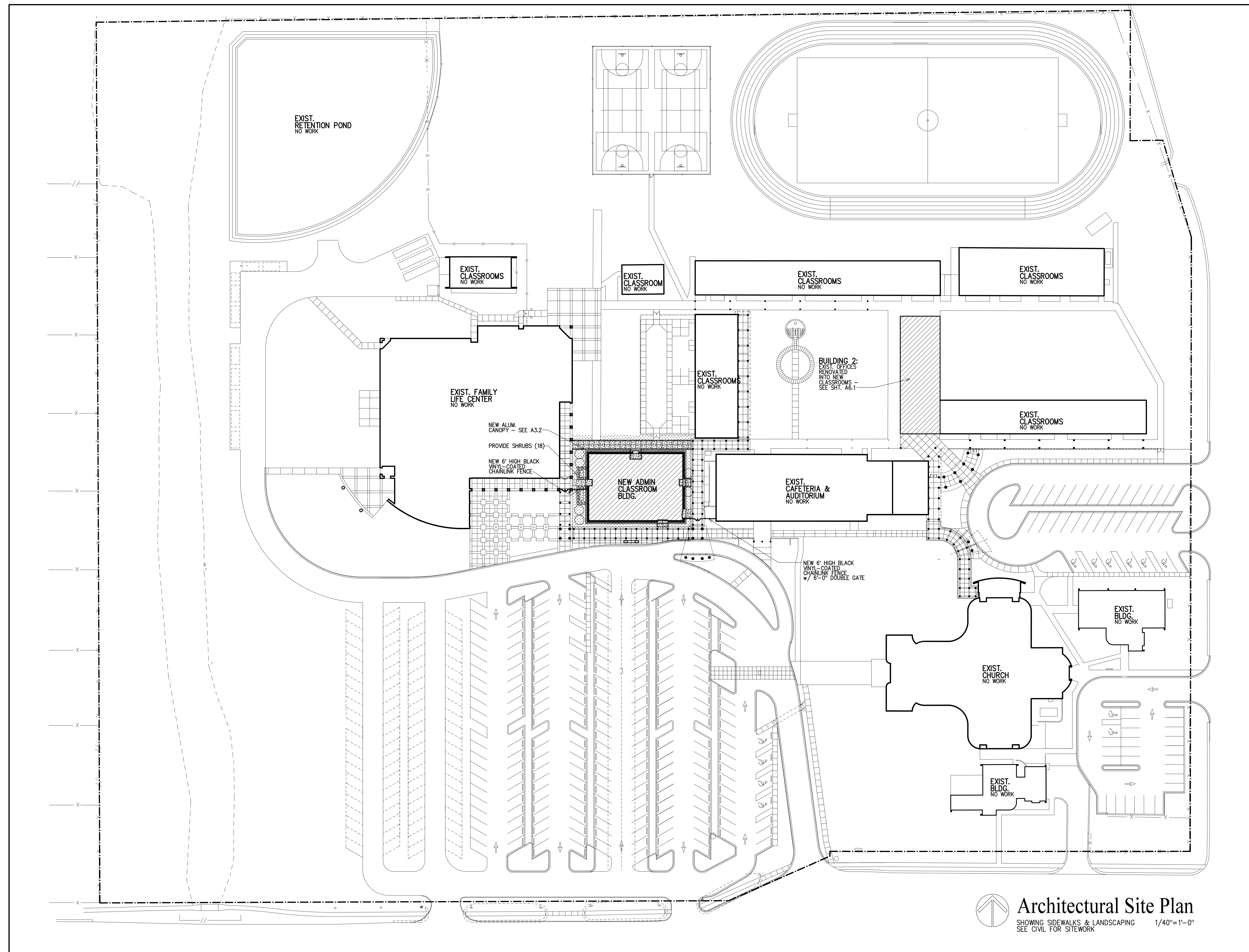
DATE:
PROJECT NUMBER: 26-003
PLOT DATE: 4/24/26
SHEET C8 OF C9



PERMIT SET
NOT RELEASED FOR CONSTRUCTION

SITE LEGEND

- PROPERTY LINE
-  NEW SOD: 419 TIFWAY BERMUDA
THESE AREAS TO RECEIVE NEW IRRIGATION SYSTEM - TIE TO EXIST. SYSTEM
-  CONCRETE SIDEWALK: 4" THICK REINF. w/ #1.4xW1.4-6x6 W.W.F. OR FIBERMESH PROVIDE SCORED JOINTS AS SHOWN BUT NOT TO EXCEED 6" O.C. PROVIDE EXPANSION JOINTS AS SHOWN BUT NOT TO EXCEED 30' O.C.
-  WOOD CHIPS
-  SHRUB - 4' TALL NELLIE HOLLY STEPHENS
-  NEW TREE: 9" TALL LIVE OAK 3" CALIPER



 **Architectural Site Plan**
SHOWING SIDEWALKS & LANDSCAPING SEE CIVIL FOR SITEWORK 1/40"=1'-0"

Project
Admin-Classroom Building
St. Mary Catholic School
Fort Walton Beach, Florida

Date:
4-24-26
Project No.
1325

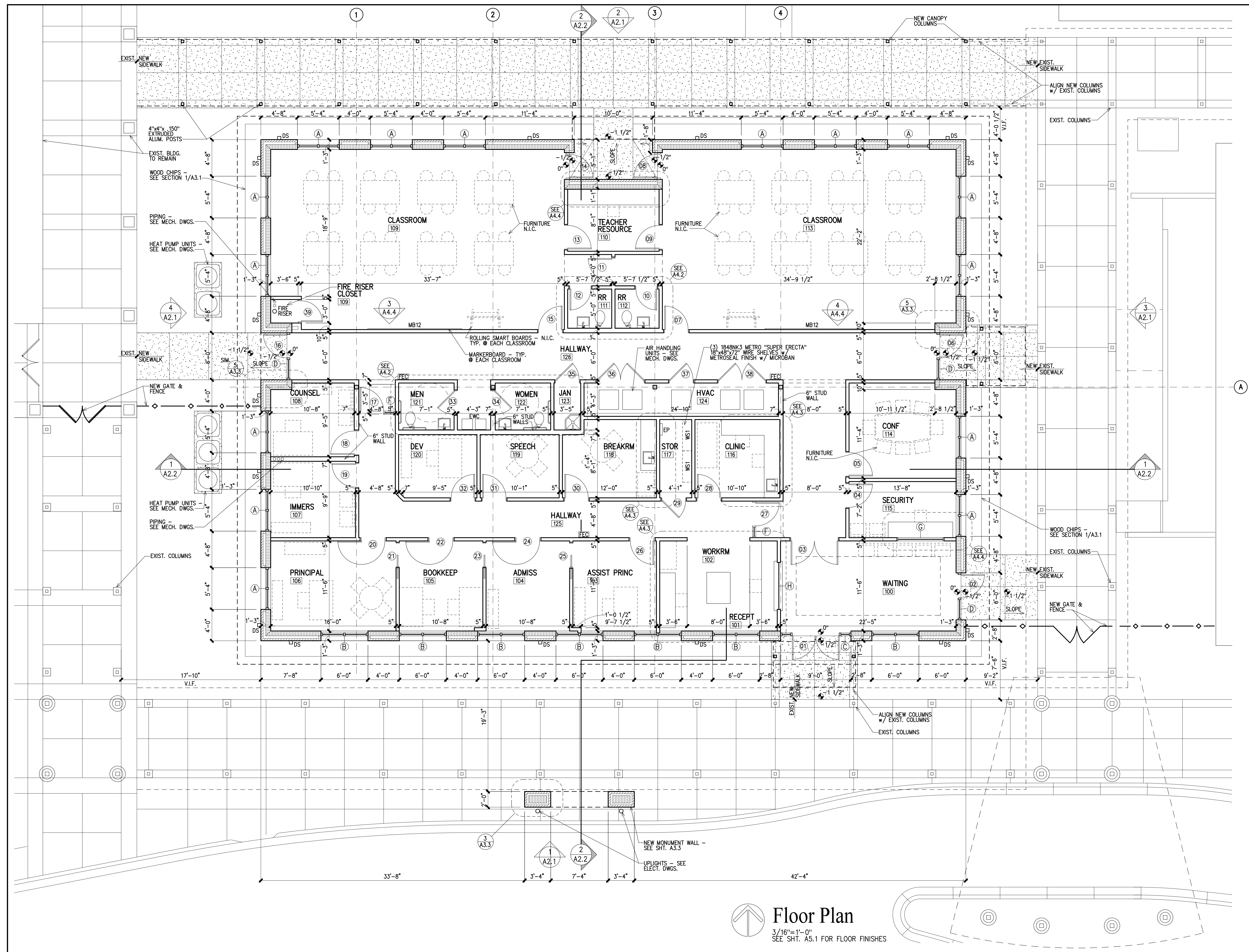
Sheet No.
A0.1

WALL LEGEND

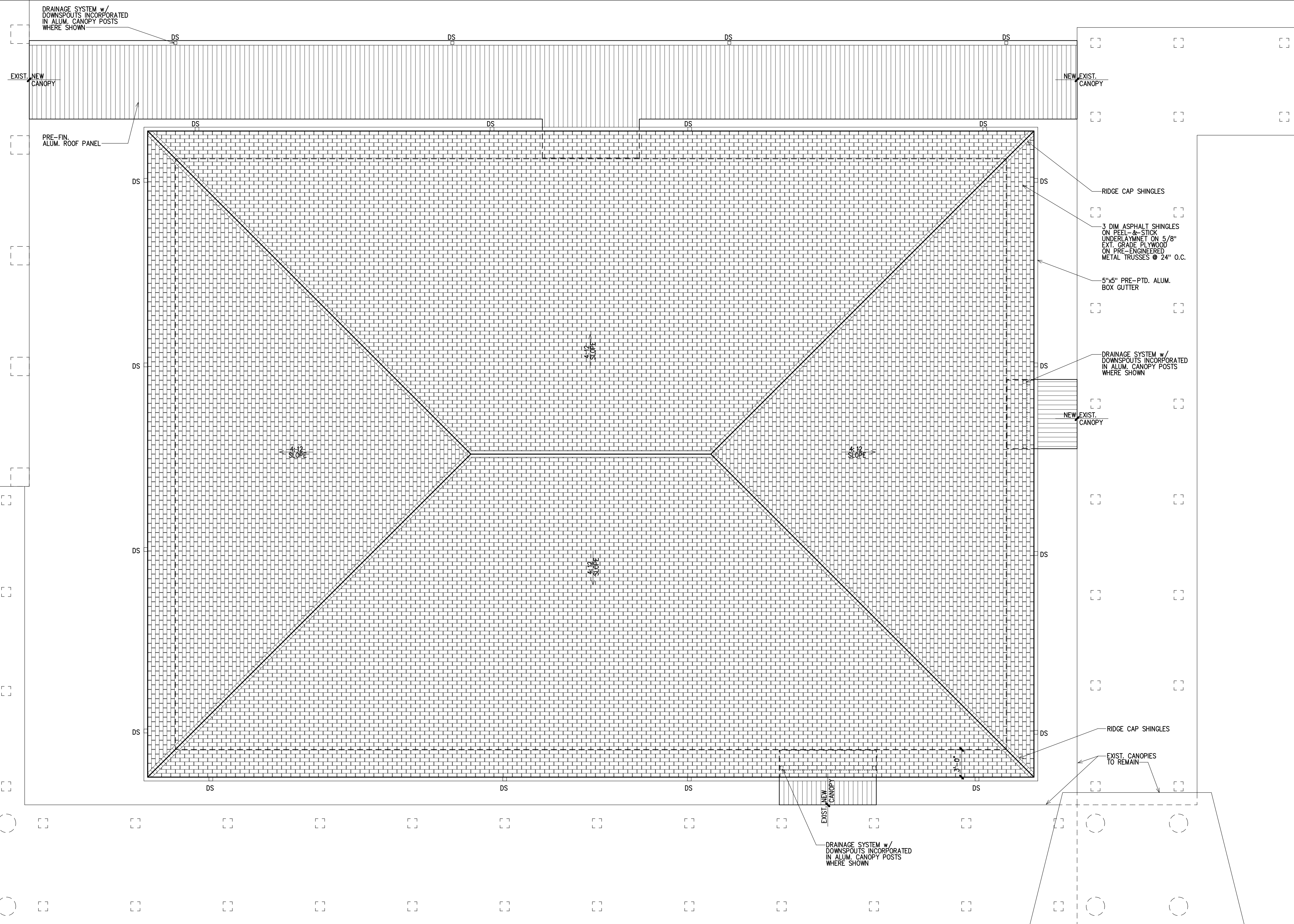
- INTERIOR WALL -
 5/8" GYP. BD. ON BOTH SIDES
 3/5" MTL STUDS @ 16" O.C.
 (6" MTL STUDS WHERE NOTED)
 w/ 3 1/2" ACOUSTIC BATT INSULATION
- EXTERIOR WALL - 4" NOMINAL BRICK
 VENEER w/ AIR SPACE & 2"
 RIGID INSULATION ON DAMPROOFED
 8" CMUS
- NEW SIDEWALK -
 SEE CIVIL DWGS.
- NEW DOOR. SEE SHEET A4.1
- EXIST. DOOR TO REMAIN
- NEW WINDOW. SEE SHEET A4.5
- FIRE EXTINGUISHER CABINET (3)
- FURNITURE - N.I.C.
- DS DOWNSPOUT TO PVC ROOT -
 CONNECT TO STORMWATER -
 SEE CIVIL DWGS.
- MB12 12'-0" MARKERBOARD

GENERAL NOTES

1. DIMENSIONS ARE TO FACE OF BRICK,
 AND FACE OF GYP. BD
2. SEAL ALL PENETRATIONS FROM
 CONDITIONED TO NON-CONDITIONED
 SPACES

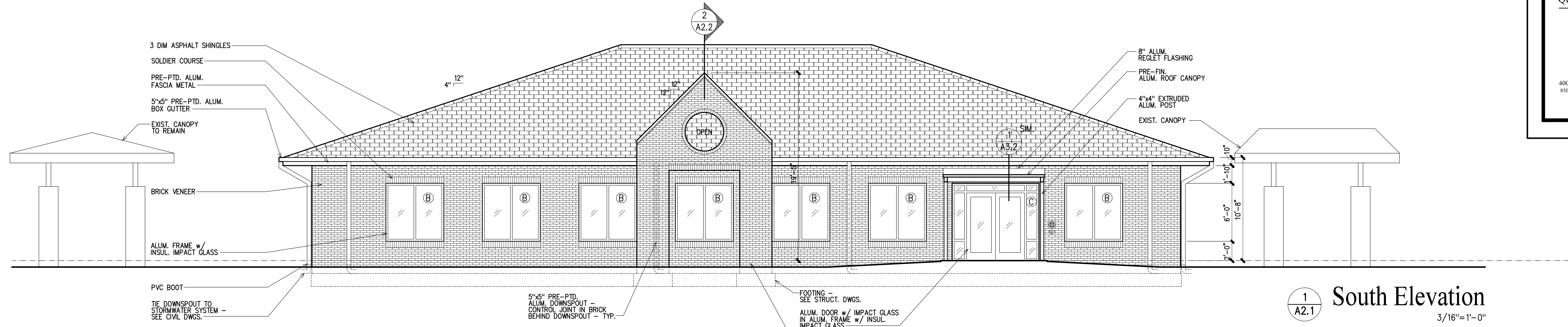


Floor Plan
 3/16"=1'-0"
 SEE SHT. A5.1 FOR FLOOR FINISHES

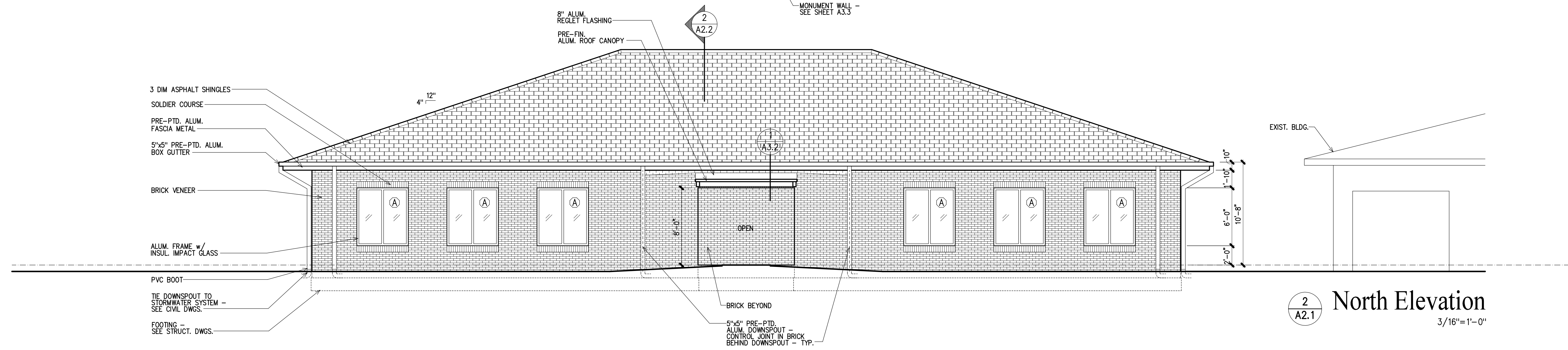


.040 ALUM. PRE-PTD. ALUM. COPING

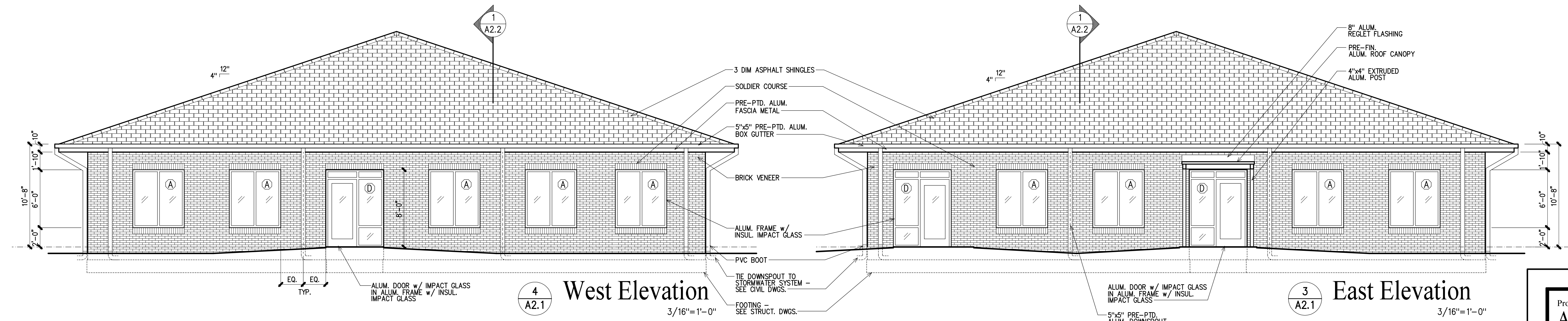
 **Roof Plan**
3/16"=1'-0"



1
A2.1 South Elevation
3/16"=1'-0"

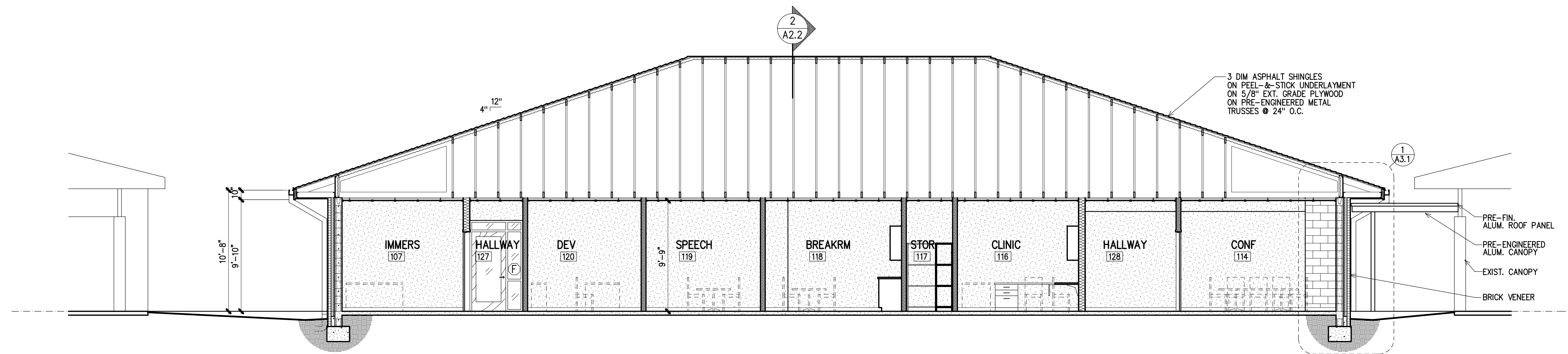
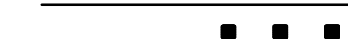


2
A2.1 North Elevation
3/16"=1'-0"



4
A2.1 West Elevation
3/16"=1'-0"

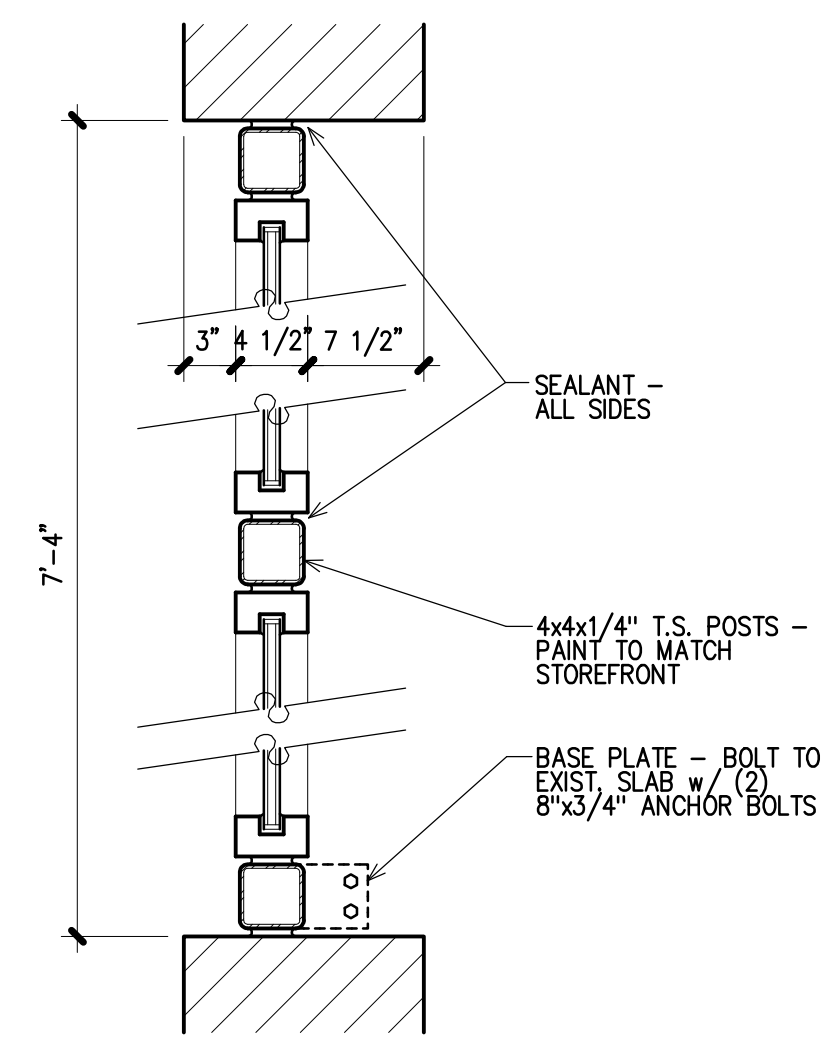
3
A2.1 East Elevation
3/16"=1'-0"



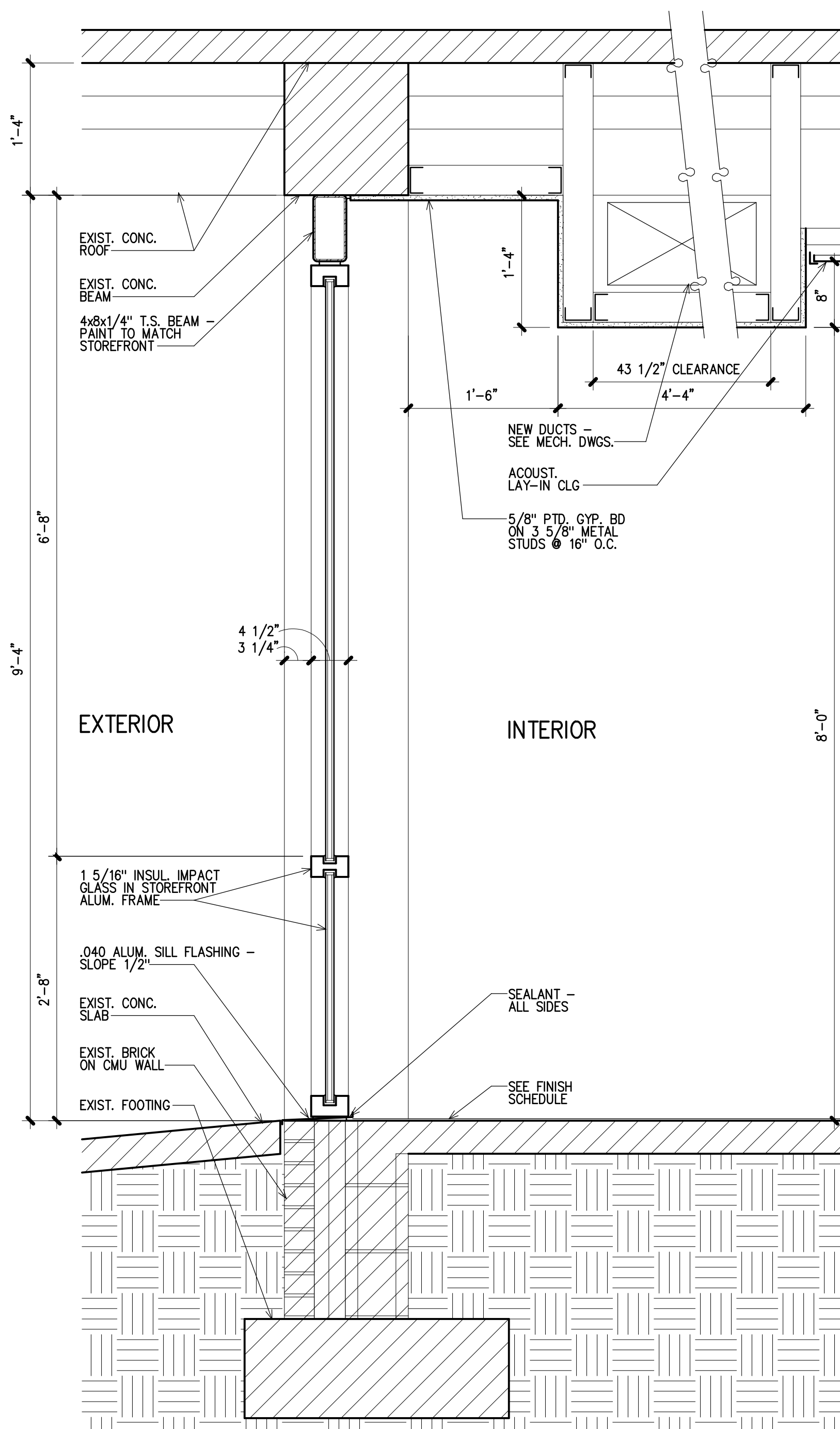
1
A2.2 Building Section
LONGITUDINAL 3/16"=1'-0"



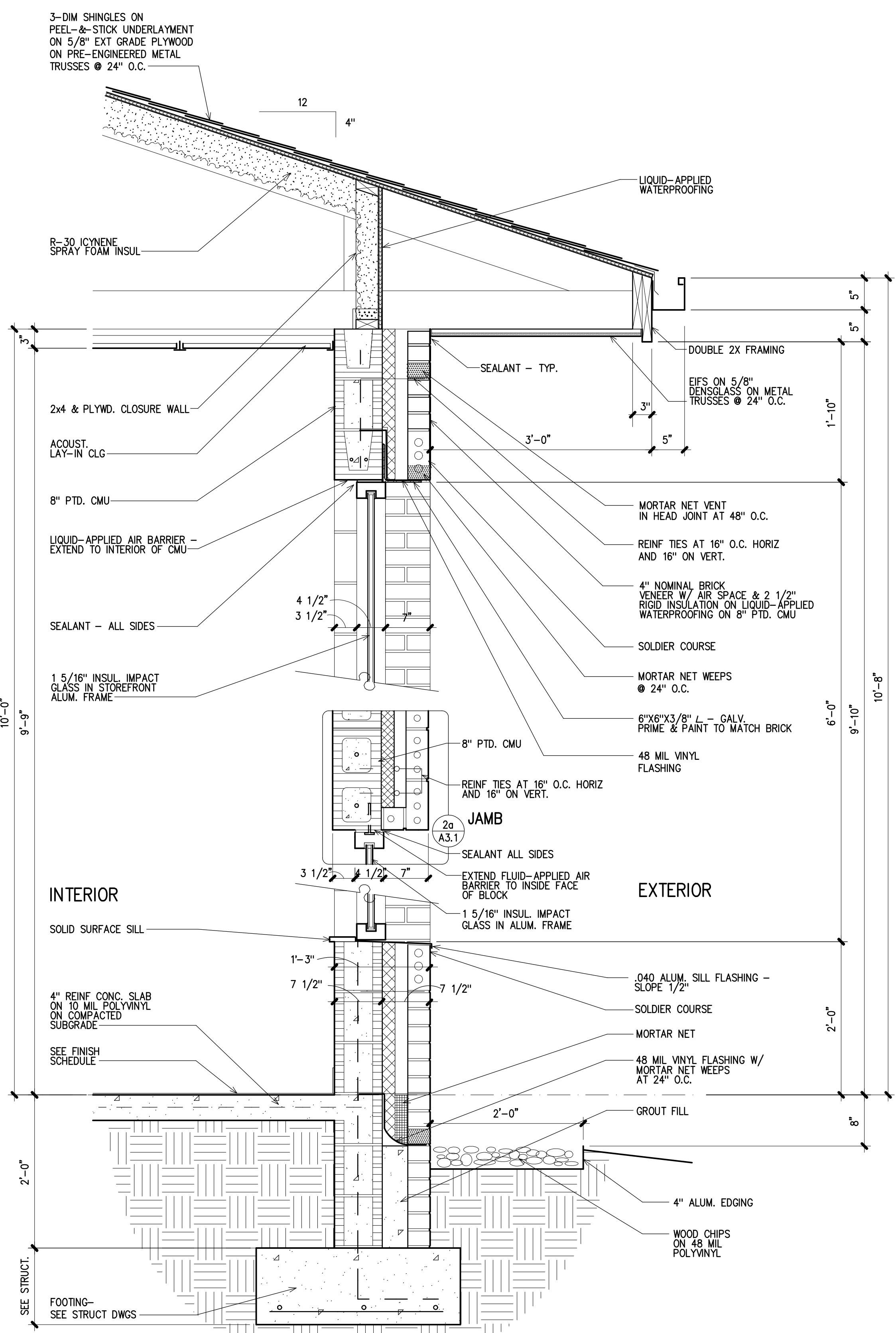
2
A2.2 Building Section
TRANSVERSE 3/16"=1'-0"



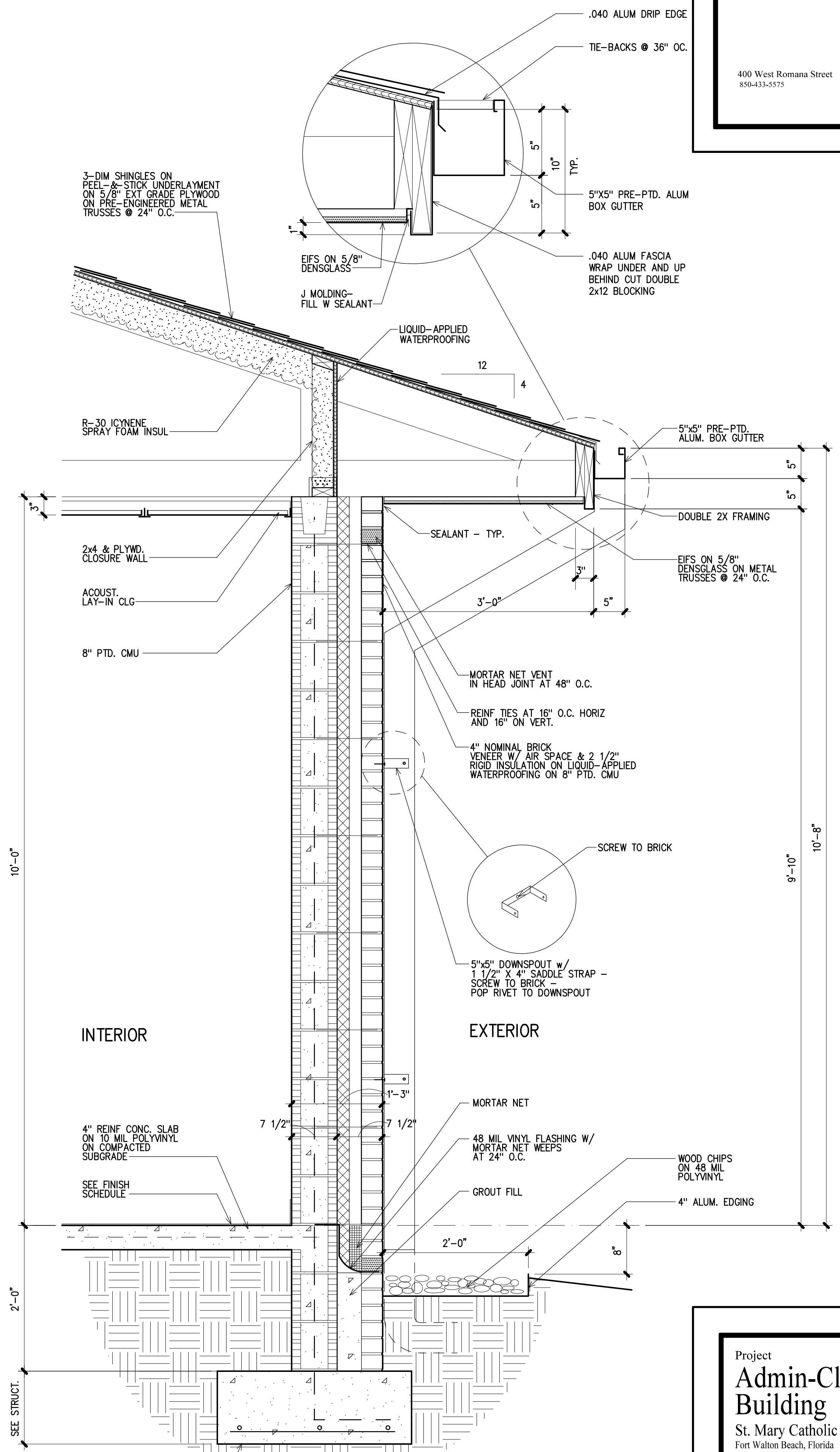
4
A3.1
Plan Detail
NEW WINDOW IN EXIST. WALL BLDG. 2 1"=1'-0"



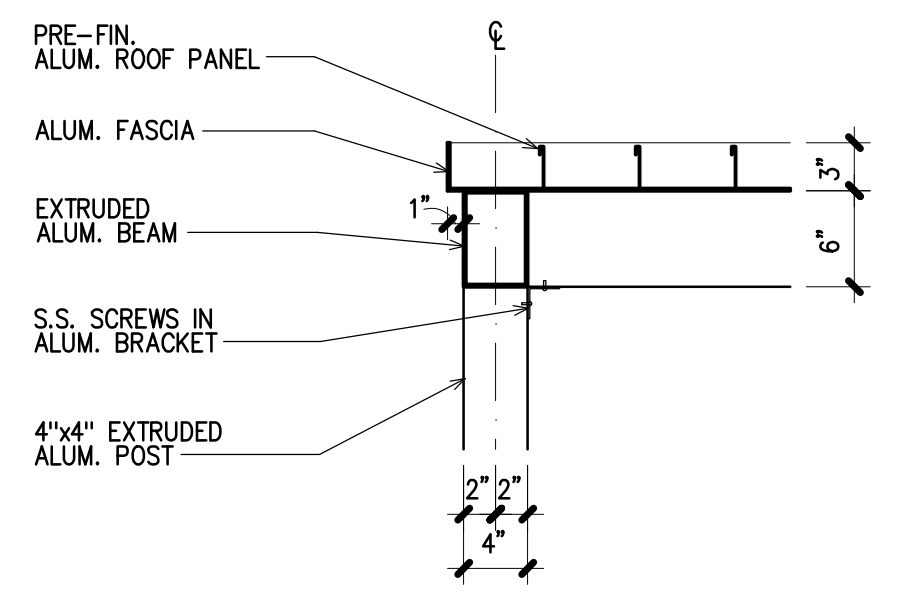
3
A3.1
Wall Section
NEW WINDOW IN EXIST. WALL BLDG. 2 1"=1'-0"



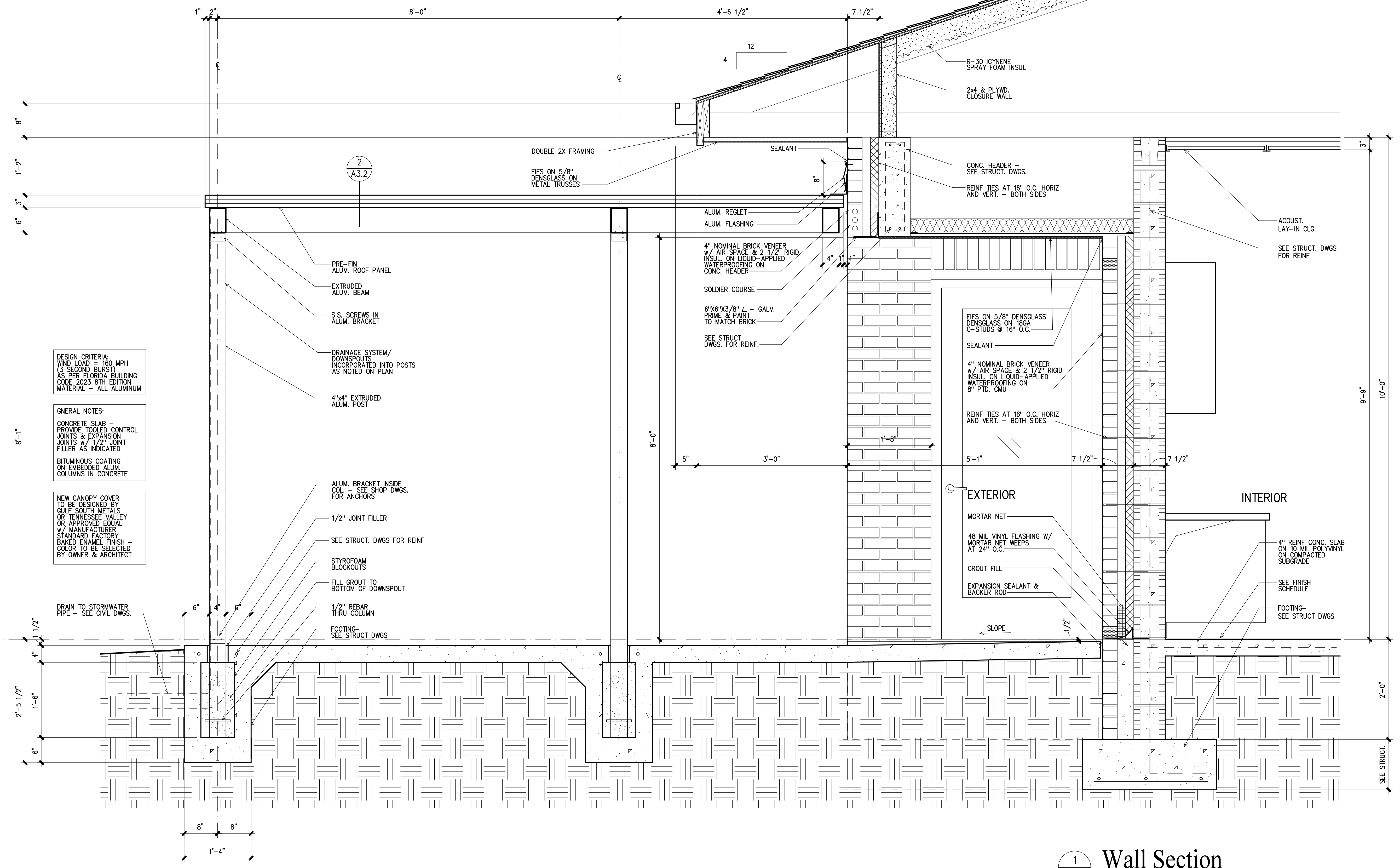
2
A3.1
Wall Section
TYP. WINDOW 1"=1'-0"



1
A3.1
Wall Section
TYPICAL 1"=1'-0"



2 Canopy Detail
 1"=1'-0"

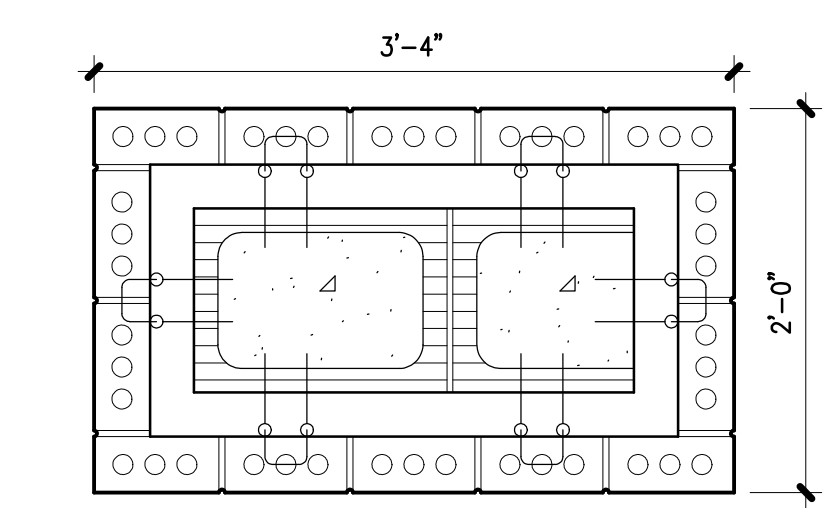


DESIGN CRITERIA:
 WIND LOAD = 160 MPH
 (3 SECOND BURST)
 AS PER FLORIDA BUILDING
 CODE 2023 8TH EDITION
 MATERIAL - ALL ALUMINUM

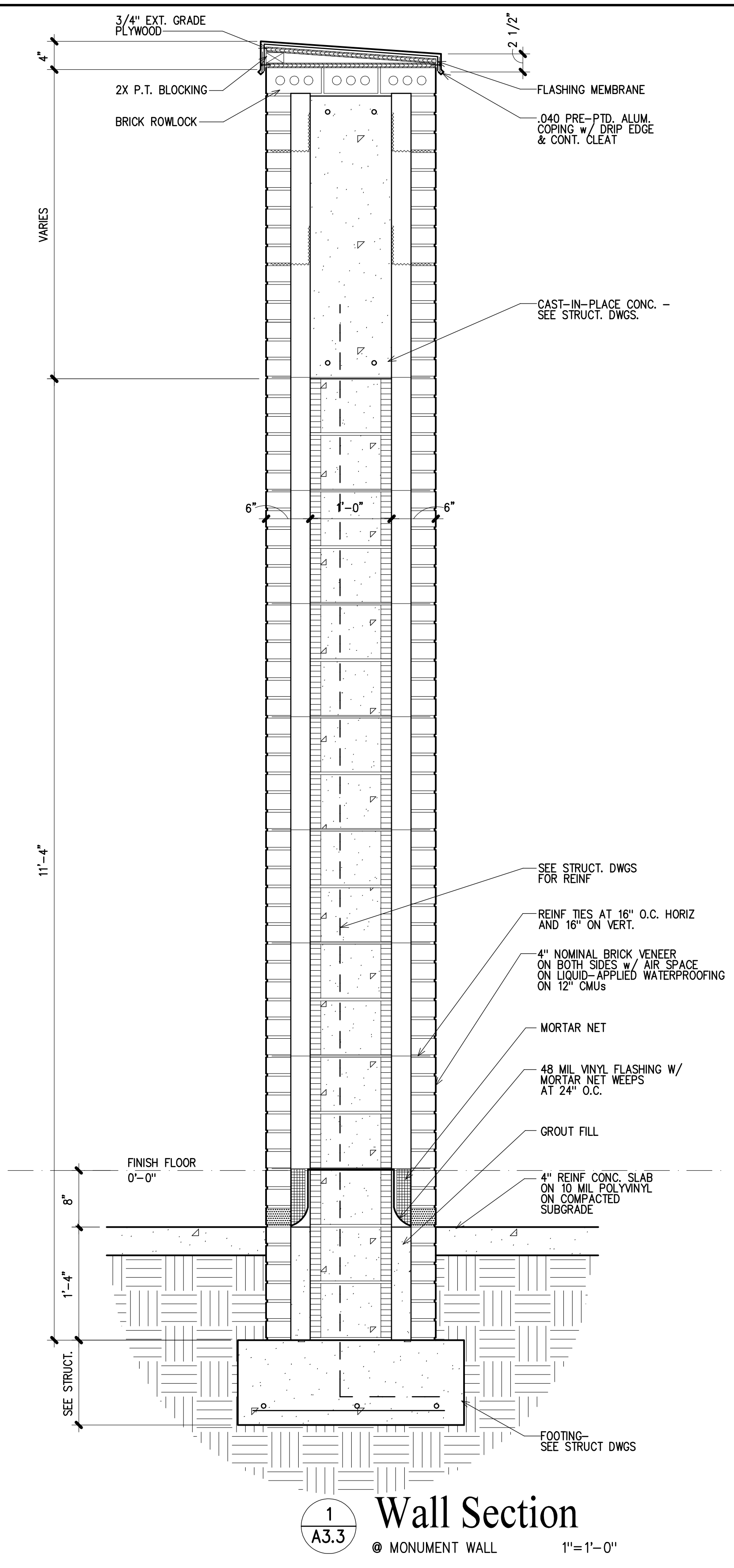
GENERAL NOTES:
 CONCRETE SLAB -
 PROVIDE TOoled CONTROL
 JOINTS & EXPANSION
 JOINTS w/ 1/2" JOINT
 FILLER AS INDICATED
 BITUMINOUS COATING
 ON EMBEDDED ALUM.
 COLUMNS IN CONCRETE

NEW CANOPY COVER
 TO BE DESIGNED BY
 GULF SOUTH METALS
 OR TENNESSEE VALLEY
 OR APPROVED EQUAL
 w/ MANUFACTURER
 STANDARD FACTORY
 BAKED ENAMEL FINISH -
 COLOR TO BE SELECTED
 BY OWNER & ARCHITECT

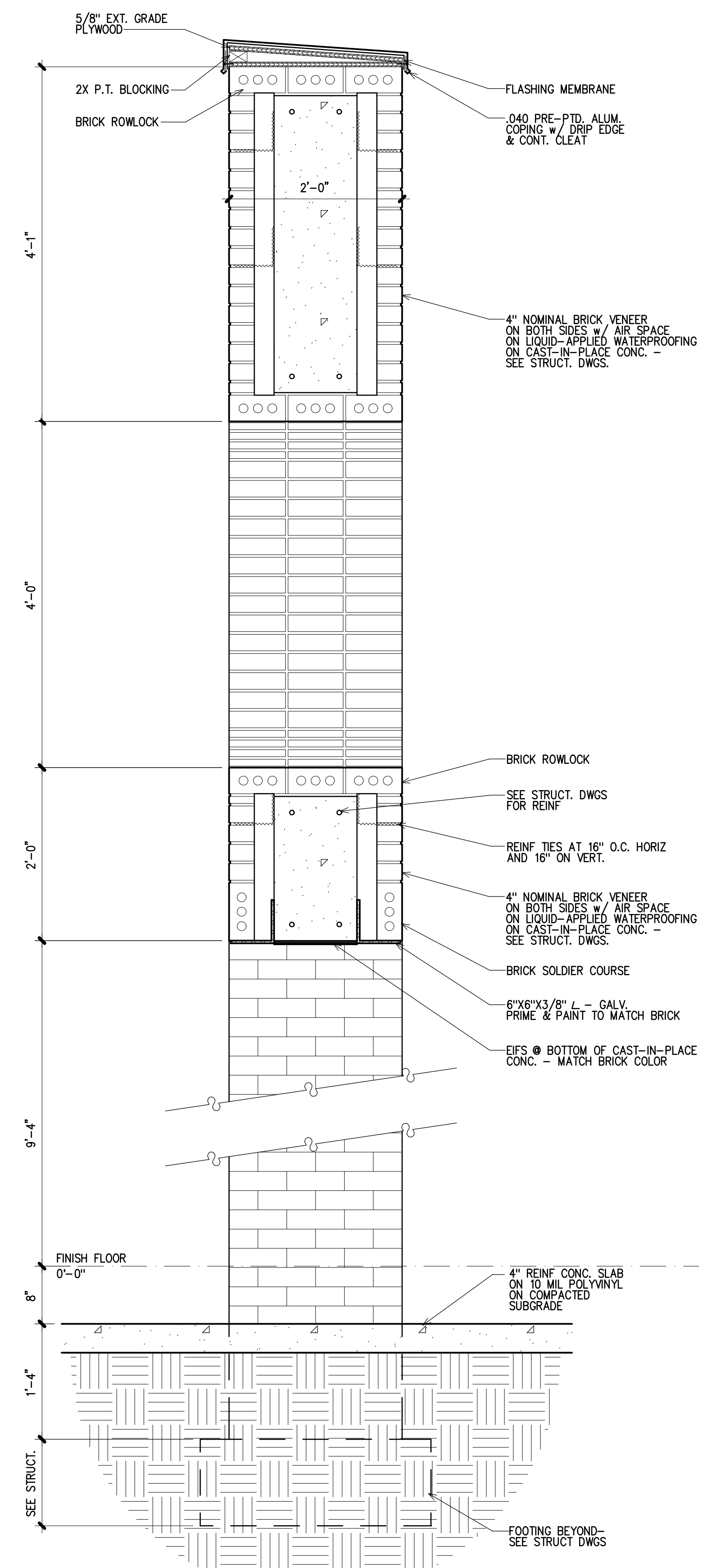
1 Wall Section
 1"=1'-0"
 EXTERIOR ALCOVE



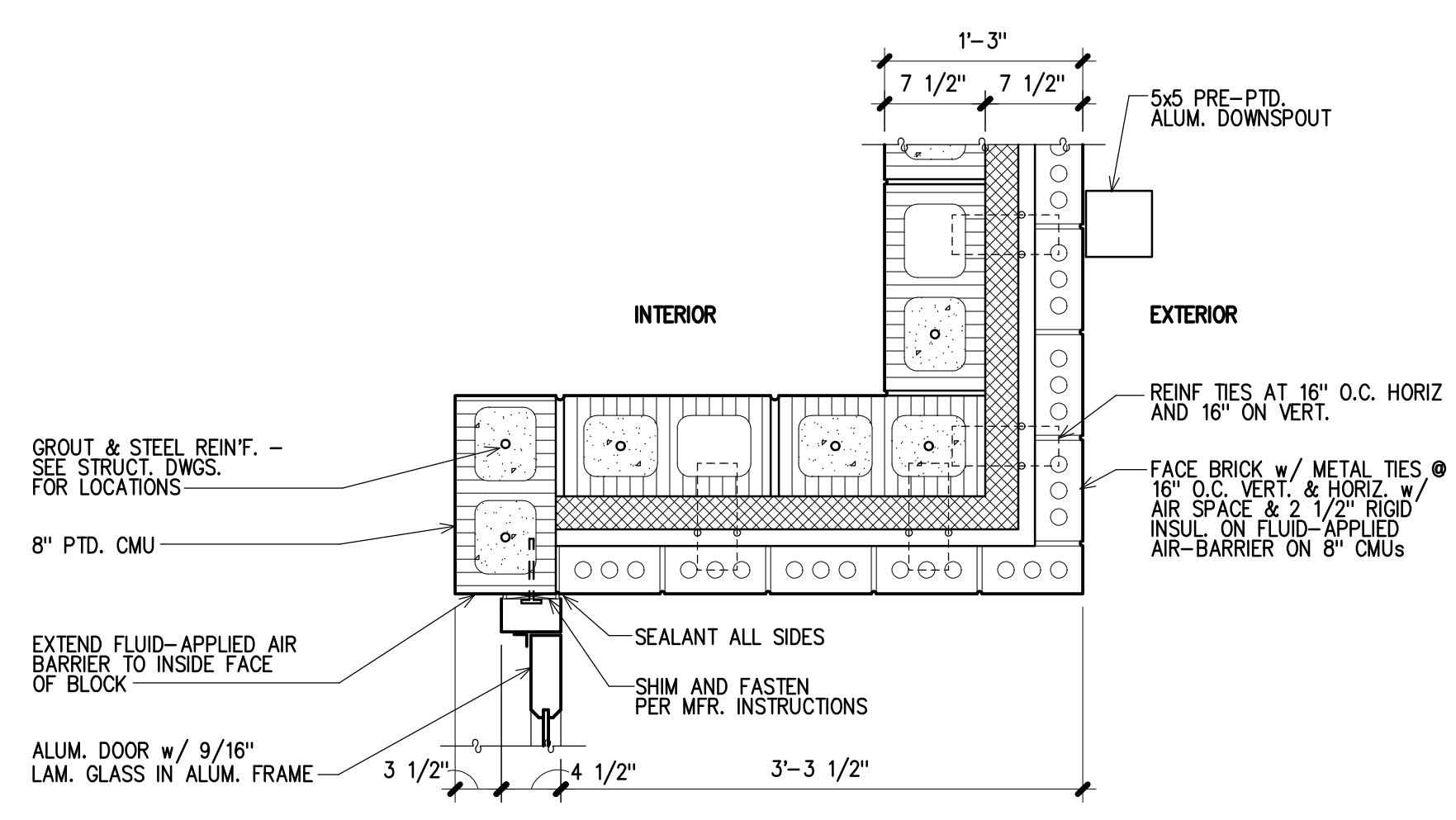
3
A3.3
MONUMENT WALL 1"=1'-0"



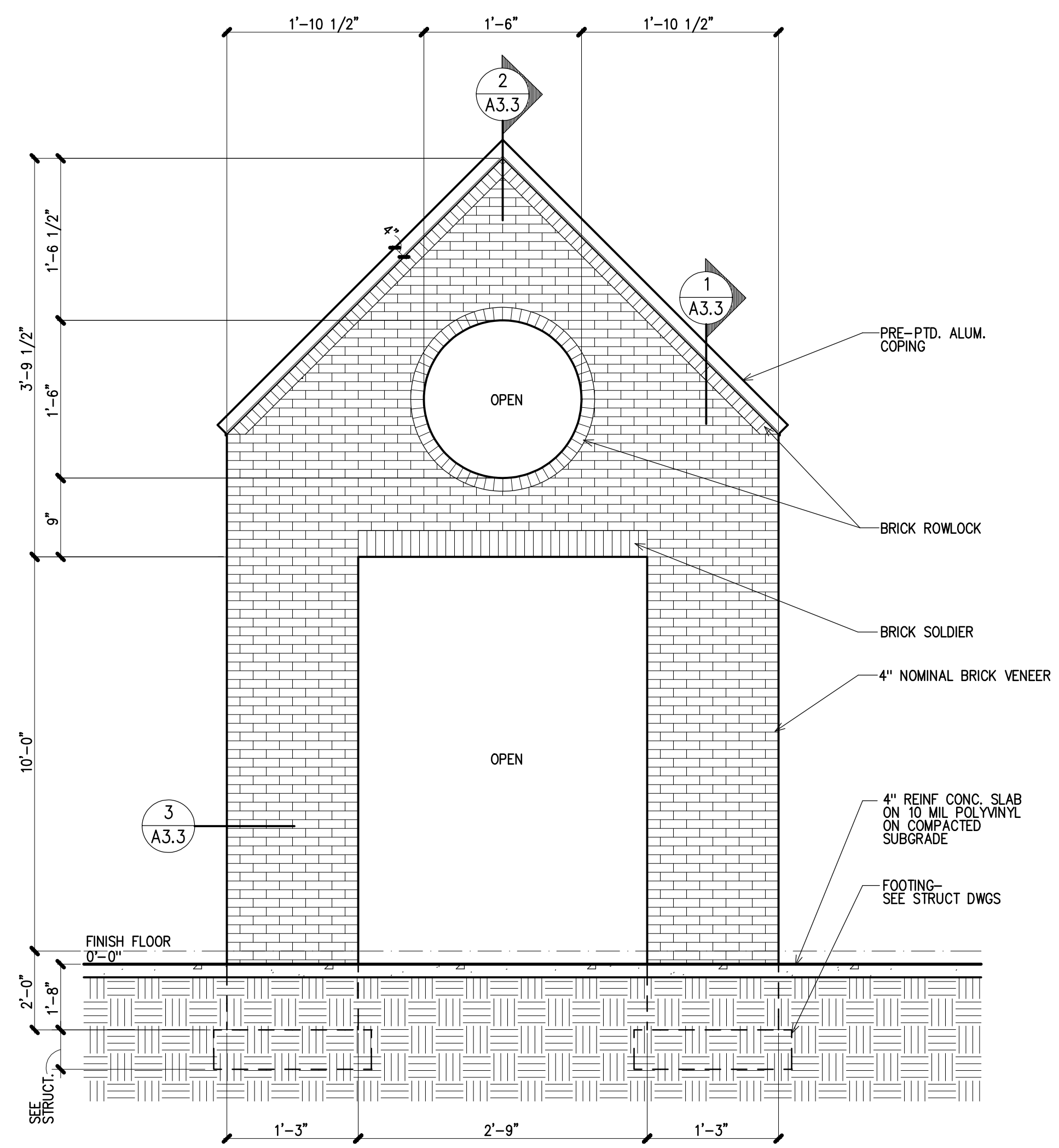
1
A3.3
MONUMENT WALL 1"=1'-0"



2
A3.3
MONUMENT WALL 1"=1'-0"



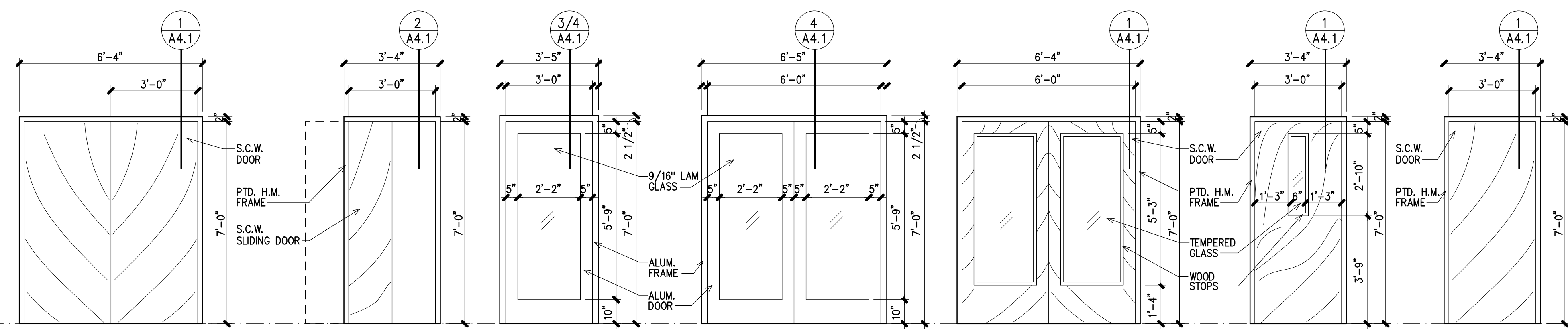
5
A3.4
HALLWAY 126 1"=1'-0"



4
A3.3
MONUMENT WALL 3/8"=1'-0"

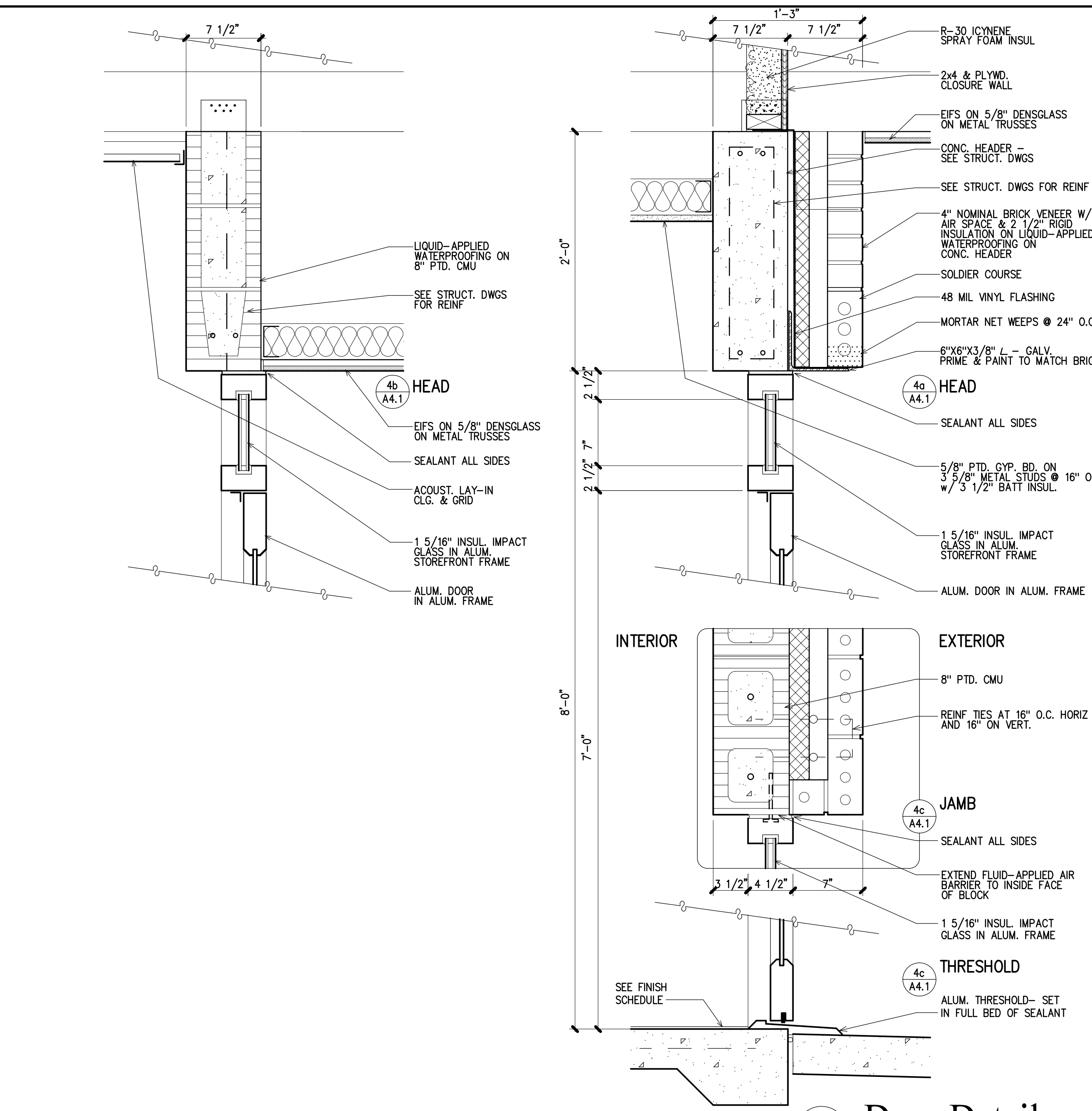
DOOR SCHEDULE

| MARK | ELEV | LOCATION | SIZE(wxhxt) | FRM TYPE | DOOR TYPE | HEAD | JAMB | THOLD | HDW SET | REMARKS |
|------|------|---------------------|-----------------------|----------|--------------|---------|---------|---------|---------|----------------|
| 01 | D | WAITING | PR 3'-0"x7'-0"x1 3/4" | ALUM. | ALUM./GLASS | 4b/A4.1 | 4b/A4.1 | 4c/A4.1 | 1 | ACCESS CONTROL |
| 02 | E | WAITING | 3'-0"x7'-0"x1 3/4" | ALUM. | ALUM./GLASS | 4a/A4.1 | 4b/A4.1 | 4c/A4.1 | 2 | |
| 03 | C | WAITING | PR 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 3 | ACCESS CONTROL |
| 04 | B | SECURITY | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 05 | B | CONFERENCE | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 06 | E | HALLWAY | 3'-0"x7'-0"x1 3/4" | ALUM. | ALUM./GLASS | 4b/A4.1 | 4b/A4.1 | 4c/A4.1 | 2 | ACCESS CONTROL |
| 07 | B | CLASSROOM | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 6 | |
| 08 | E | CLASSROOM | 3'-0"x7'-0"x1 3/4" | ALUM. | ALUM./GLASS | 3a/A4.1 | 3b/A4.1 | 3c/A4.1 | 2 | 4" HEAD FRAME |
| 09 | B | TEACHER RESOURCE | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 10 | A | RR | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W. | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 7 | |
| 11 | B | CLASSROOM | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 8 | |
| 12 | A | RR | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W. | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 7 | |
| 13 | B | TEACHER RESOURCE | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 14 | E | CLASSROOM | 3'-0"x7'-0"x1 3/4" | ALUM. | ALUM./GLASS | 3a/A4.1 | 3b/A4.1 | 3c/A4.1 | 2 | 4" HEAD FRAME |
| 15 | B | CLASSROOM | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 6 | |
| 16 | E | HALLWAY | 3'-0"x7'-0"x1 3/4" | ALUM. | ALUM./GLASS | 4b/A4.1 | 4b/A4.1 | 4c/A4.1 | 5 | ACCESS CONTROL |
| 17 | B | HALLWAY | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 6 | |
| 18 | B | COUNSEL | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 19 | B | IMMERS | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 20 | B | PRINCIPAL | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 21 | F | PRINCIPAL | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W. | 2a/A4.1 | 2b/A4.1 | 2c/A4.1 | 9 | |
| 22 | B | BOOKKEEP | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 23 | F | BOOKKEEP | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W. | 2a/A4.1 | 2b/A4.1 | 2c/A4.1 | 9 | |
| 24 | F | ADMISSIONS | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 25 | F | ADMISSIONS | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W. | 2a/A4.1 | 2b/A4.1 | 2c/A4.1 | 9 | |
| 26 | B | ASSISTANT PRINCIPAL | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 27 | B | HALLWAY | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 28 | B | CLINIC | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 29 | A | STORAGE | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W. | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 30 | B | BREAKROOM | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 8 | |
| 31 | B | SPEECH | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 32 | B | DEVELOPMENT | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W./GLASS | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 4 | |
| 33 | A | MEN'S RR | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W. | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 7 | |
| 34 | A | WOMEN'S RR | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W. | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 7 | |
| 35 | A | JANITOR'S CLOSET | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W. | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 11 | |
| 36 | G | HVAC CLOSET | PR 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W. | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 10 | |
| 37 | A | HVAC CLOSET | 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W. | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 11 | |
| 38 | G | HVAC CLOSET | PR 3'-0"x7'-0"x1 3/4" | H.M. | S.C.W. | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 10 | |
| 39 | A | FIRE RISER CLOSET | 2'-8"x7'-0"x1 3/4" | H.M. | S.C.W. | 1a/A4.1 | 1b/A4.1 | 1c/A4.1 | 11 | |

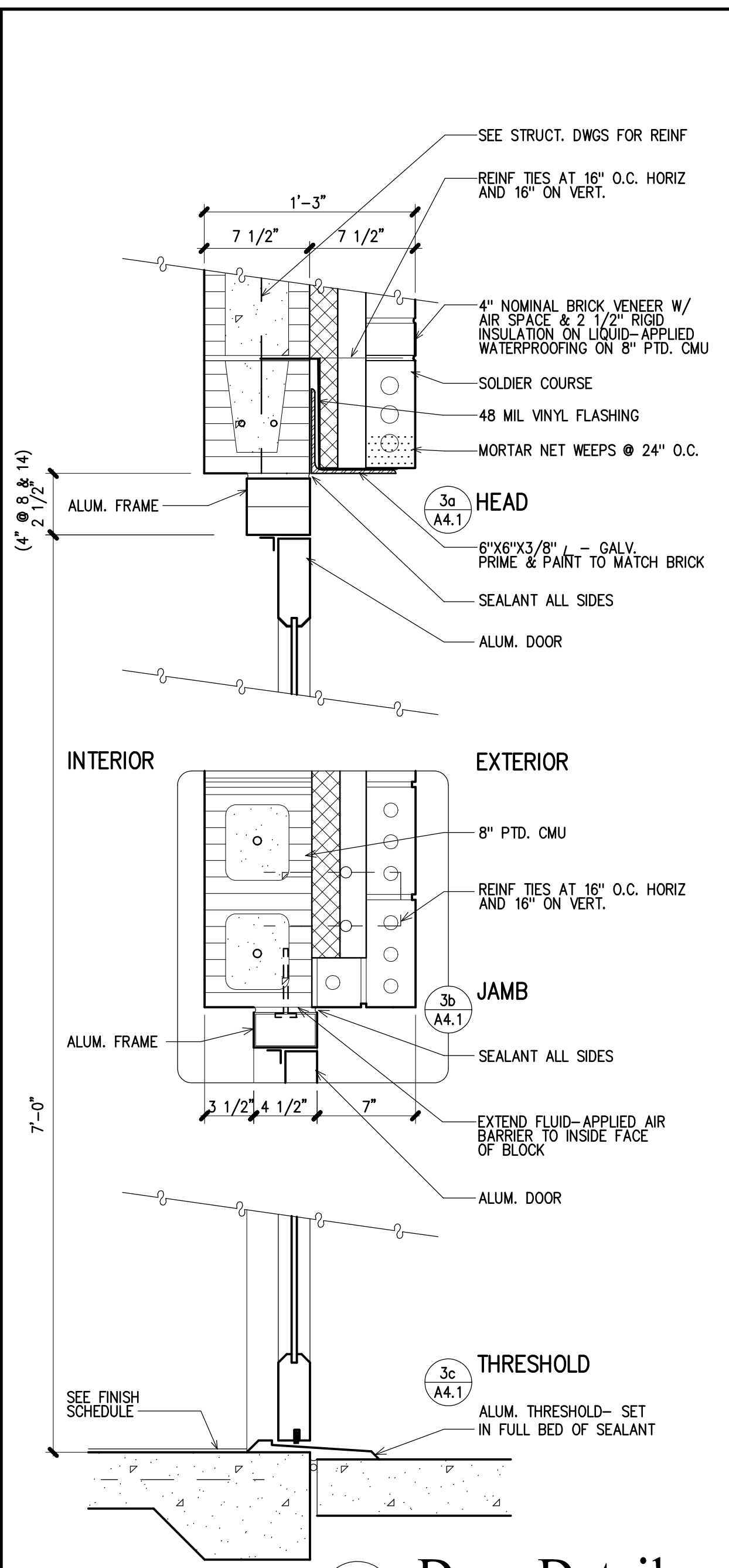


ELEV. G S.C.W. DOOR IN H.M. FRAME
 ELEV. F S.C.W. POCKET DOOR IN H.M. FRAME
 ELEV. E ALUM. DOOR w/ LAM GLASS IN ALUM. STOREFRONT FRAME (4" HEAD FRAME @ DOORS 8 & 14)
 ELEV. D ALUM. DOOR w/ LAM GLASS IN ALUM. STOREFRONT FRAME
 ELEV. C S.C.W. DOOR w/ TEMPERED GLASS IN H.M. FRAME
 ELEV. B S.C.W. DOOR w/ TEMPERED GLASS IN H.M. FRAME
 ELEV. A S.C.W. DOOR IN H.M. FRAME

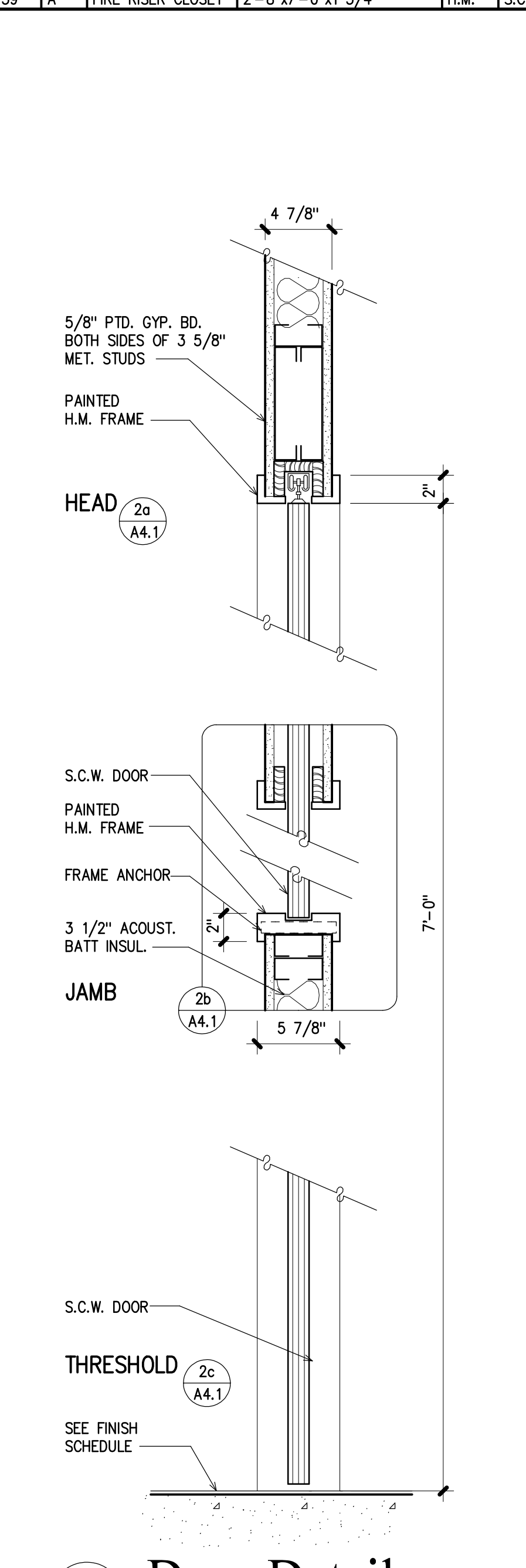
Door Elevations
3/8" = 1'-0"



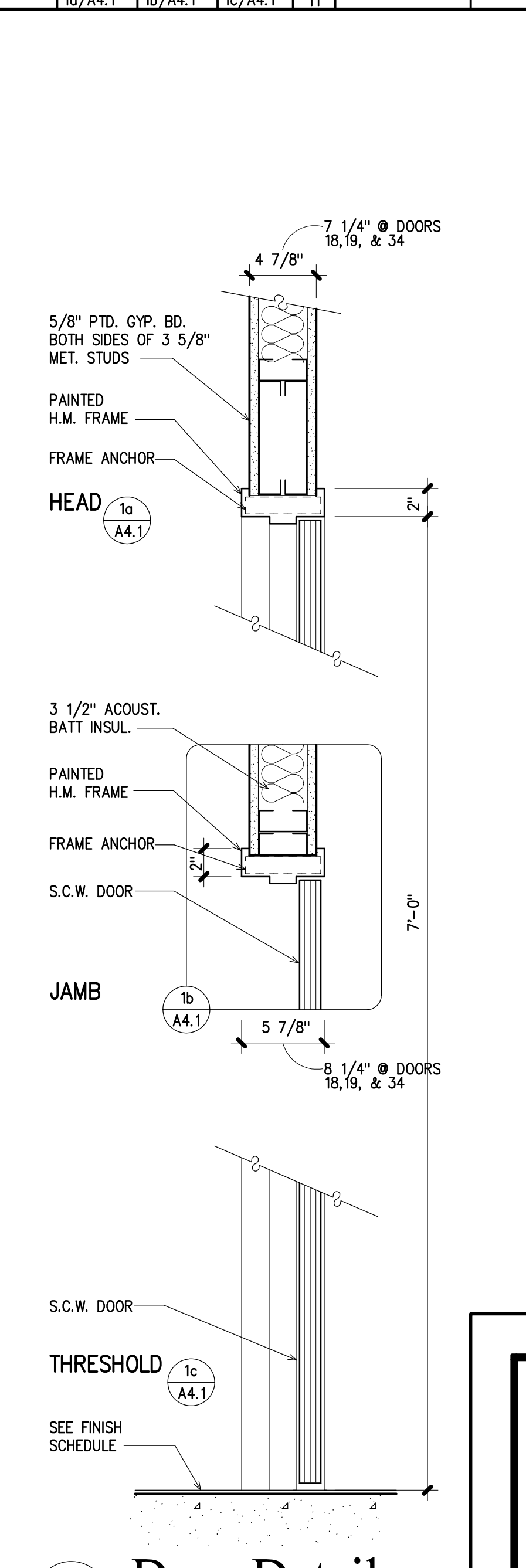
4 A4.1 Door Detail
EXTERIOR DOOR 1 1/2" = 1'-0"
ALUM. DOOR IN ALUM. FRAME



3 A4.1 Door Detail
EXTERIOR DOOR 1 1/2" = 1'-0"
ALUM. DOOR IN ALUM. FRAME



2 A4.1 Door Detail
INTERIOR DOOR 1 1/2" = 1'-0"
S.C.W. POCKET DOOR IN H.M. FRAME



1 A4.1 Door Detail
INTERIOR DOOR 1 1/2" = 1'-0"
S.C.W. DOOR IN H.M. FRAME

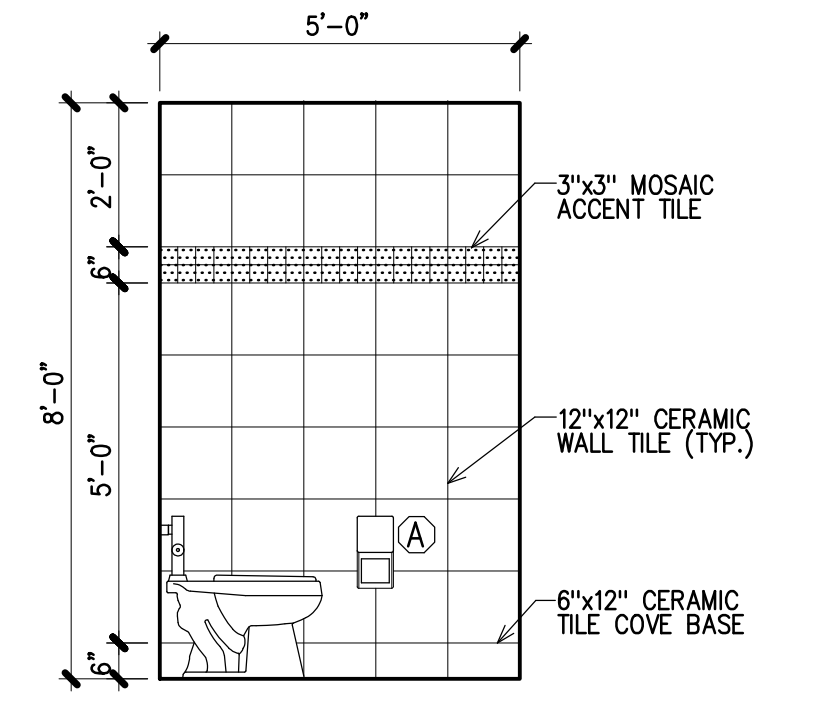
TOILET ACCESSORIES SCHEDULE

| MK. | DESCRIPTION | MOUNTING HEIGHT | SPECIFICATION | REMARKS |
|-----|--------------------------|---|------------------------------|----------------------|
| A | TOILET TISSUE DISPENSER | DISPENSER OUTLET MTD. 15" A.F.F. MIN. | 20030 | |
| B | PAPER TOWEL DISPENSER | DISPENSER OUTLET MTD. 44" A.F.F. | 20210 | |
| C | SOAP DISPENSER | | | BY OWNER |
| D | TRASH BIN | | RUBBERMAID 5M795 | |
| E | ROBE HOOK | TOP AT 48" A.F.F. | 7340-S | |
| F | UNDERLAVATORY GUARD | | TRUEBRO LAV-SHEILD 2018-K0-K | |
| G | MIRROR | BOTT. OF REFL. SURFACE MTD. 40" A.F.F. MAX. | 0600 | SEE ELEVS. FOR SIZES |
| H | STAINLESS STEEL GRAB BAR | TOP AT 36" A.F.F. MAX. | 3800-36 | 1 1/2" DIA.x36" LONG |
| J | STAINLESS STEEL GRAB BAR | TOP AT 36" A.F.F. MAX. | 3800-42 | 1 1/2" DIA.x42" LONG |
| K | CUSTODIAL SHELF | TOP @ 72" A.F.F. | 1315-3 | |

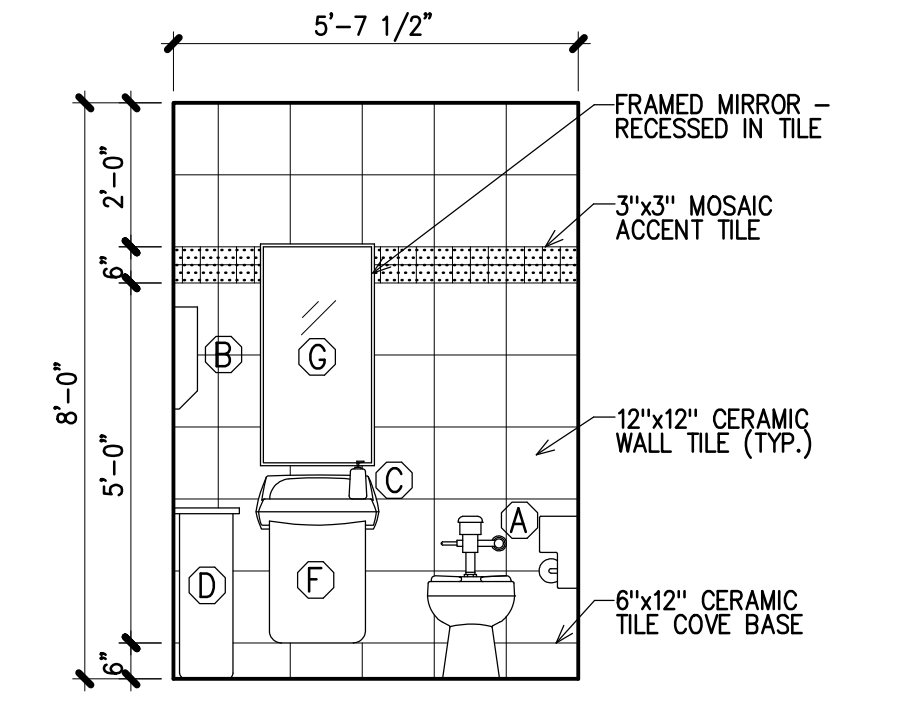
NOTE: ACCESSORIES BY AMERICAN SPECIALTIES INC. OR EQUAL AS LISTED IN SPECS. CONTRACTOR TO PROVIDE SOLID BLOCKING IN STUD WALLS FOR MOUNTING.

Quina Grundhoefer Architects

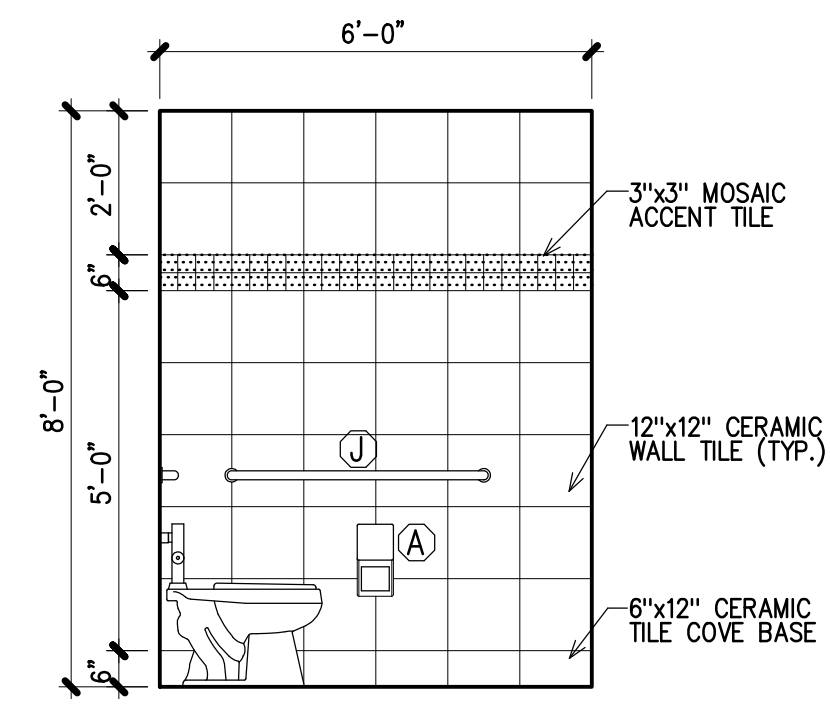
400 West Romana Street Pensacola, FL 32502
850-433-5575 qg@qgarchitects.com



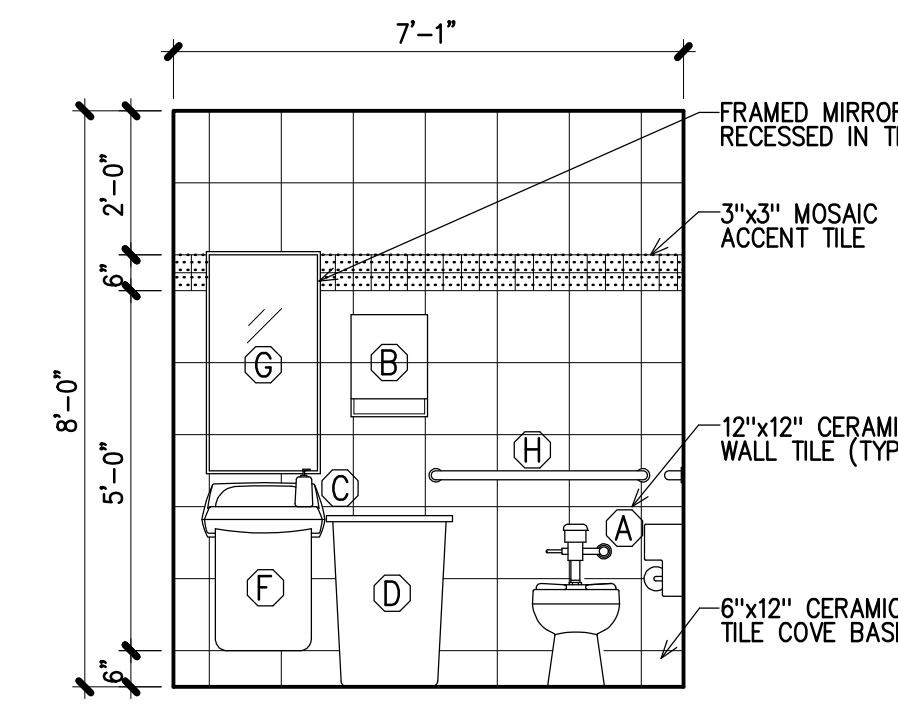
2 Detail
A4.2 RESTROOM 112 3/8"=1'-0"
RESTROOM 121 (O.H.)



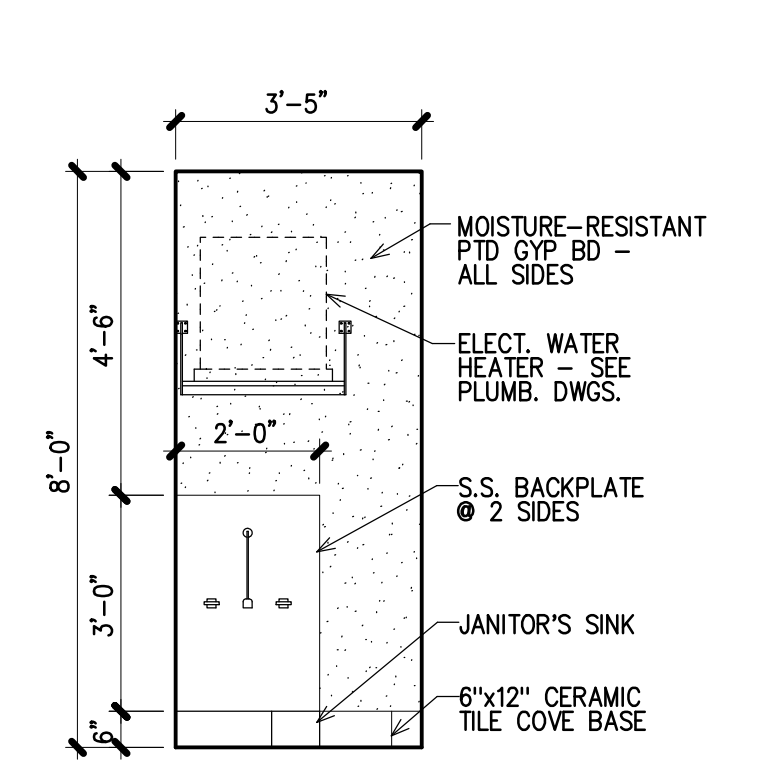
1 Detail
A4.2 RESTROOM 112 3/8"=1'-0"
RESTROOM 121 (O.H.)



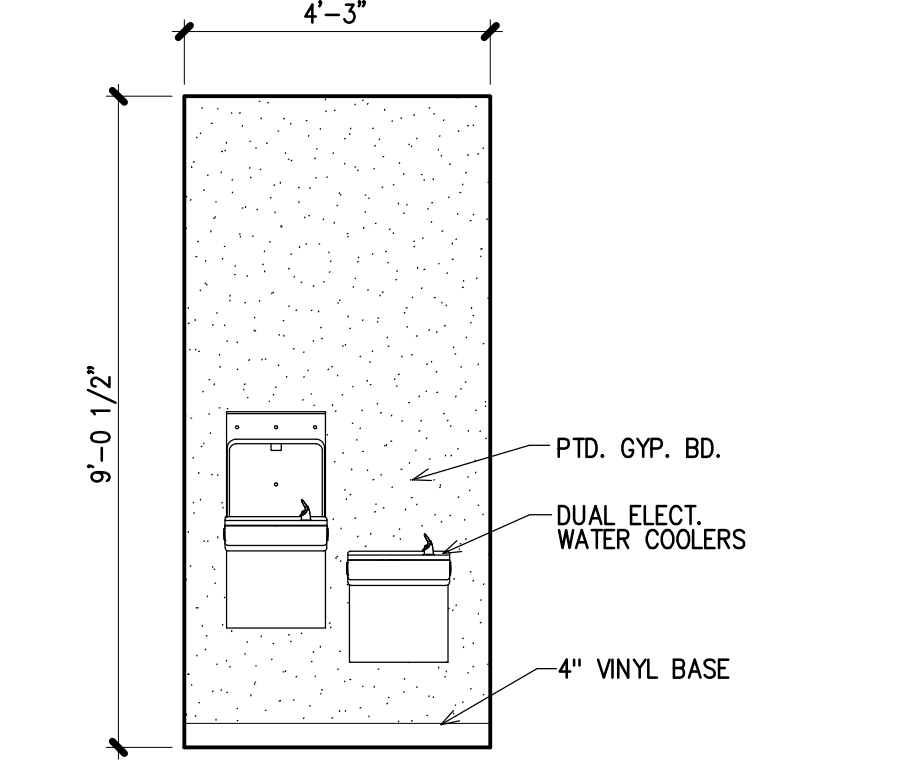
4 Detail
A4.2 WOMEN 122 3/8"=1'-0"
MEN 121 (O.H.)



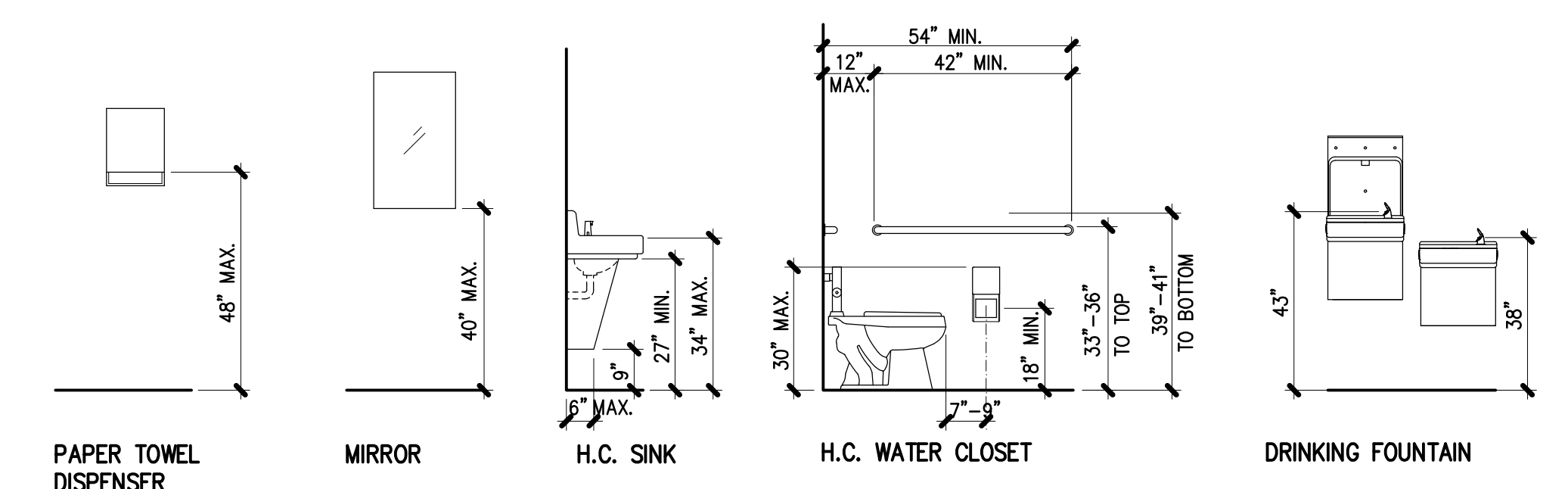
3 Detail
A4.2 WOMEN 122 3/8"=1'-0"
MEN 121 (O.H.)



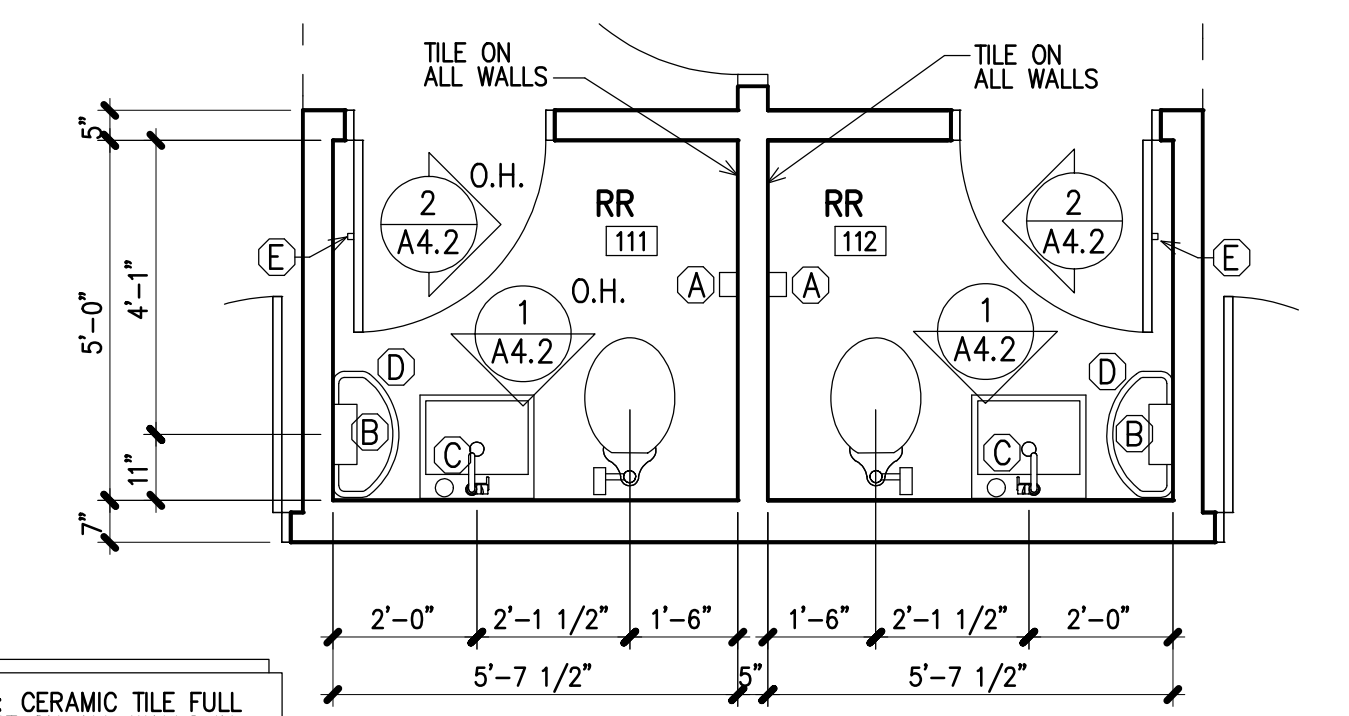
6 Detail
A4.2 JANITOR 123 3/8"=1'-0"



5 Detail
A4.2 HALLWAY 126 3/8"=1'-0"

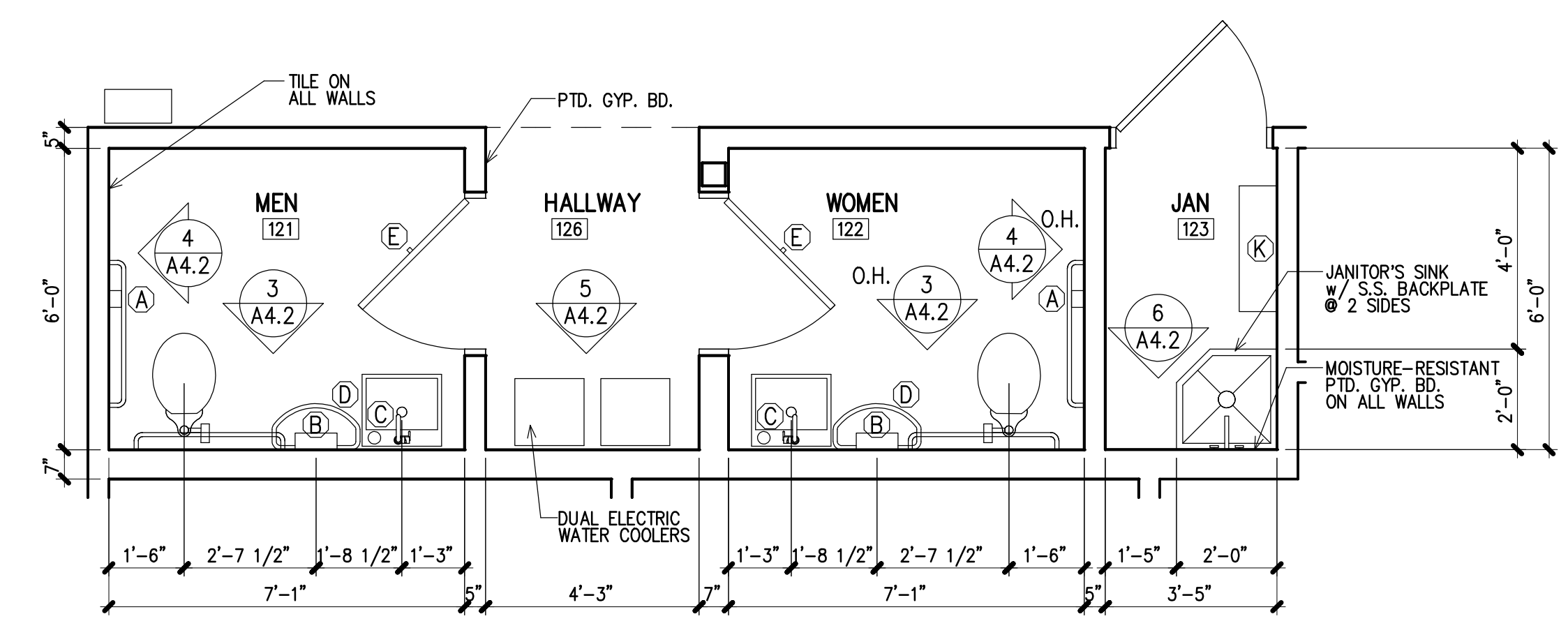


ADA Mounting Heights
3/8"=1'-0"



NOTE: CERAMIC TILE FULL HEIGHT ON ALL WALLS IN ALL RESTROOMS - INSTALL OVER 5/8" MOISTURE RESISTANT GYP. BD.

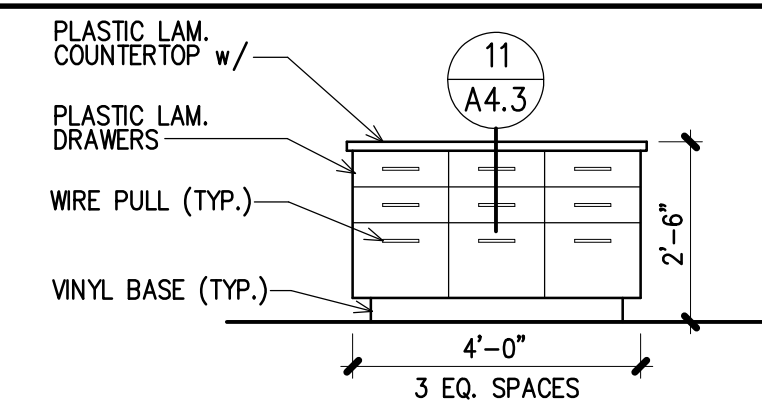
Enlarged Plan
RESTROOMS 111 & 112 3/8"=1'-0"



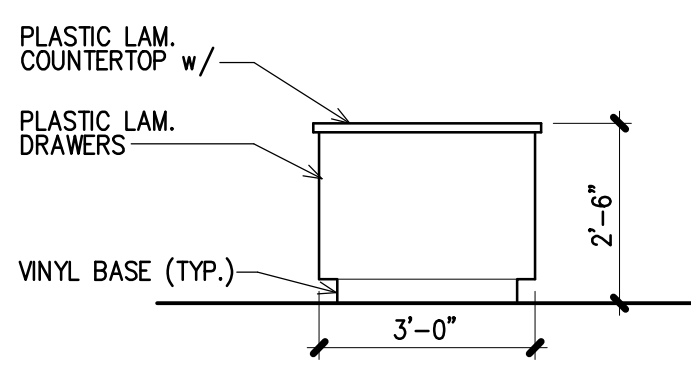
Enlarged Plan
RESTROOMS 121 & 122, JANITOR CLOSET 123 3/8"=1'-0"

Project
Admin-Classroom Building
St. Mary Catholic School
Fort Walton Beach, Florida

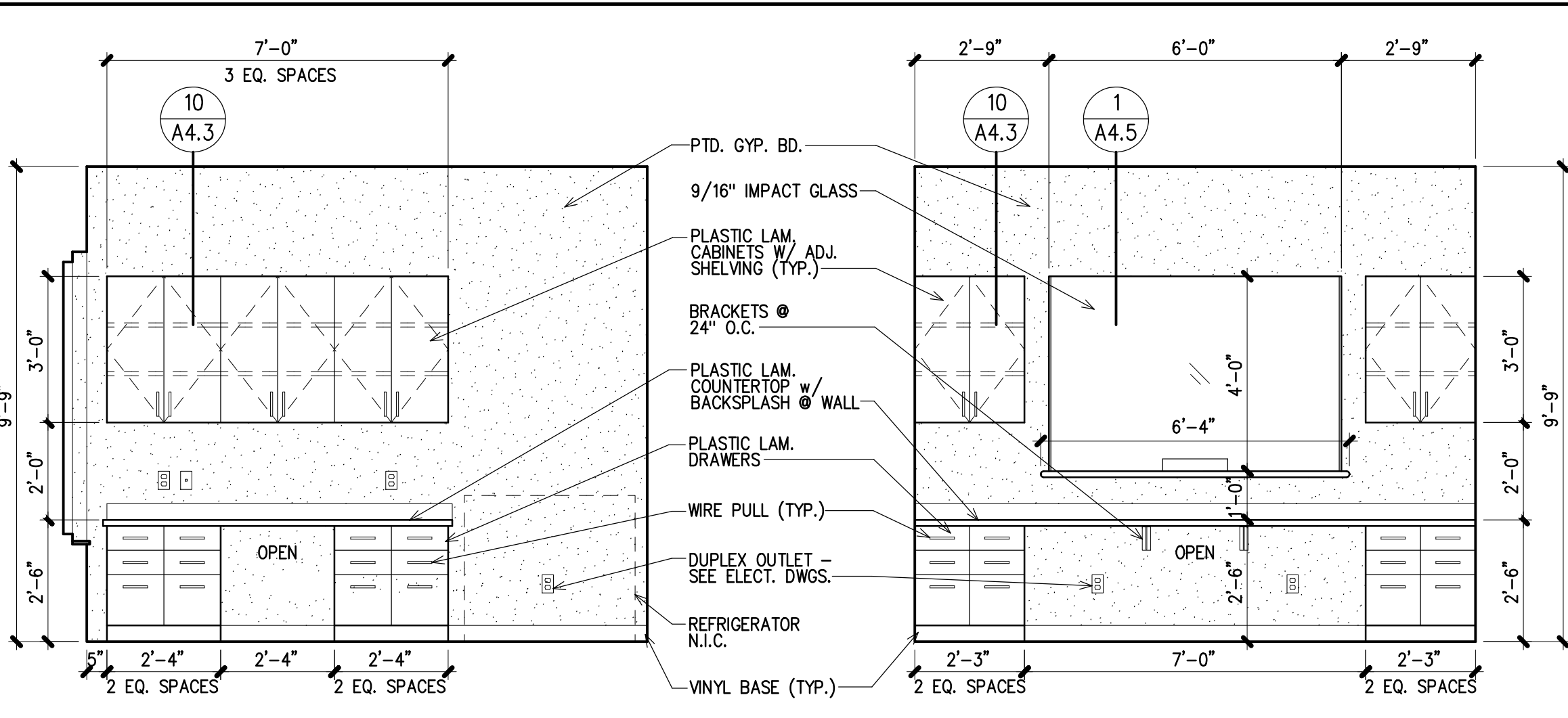
Date: 4-24-26
Project No. 1325
Sheet No. **A4.2**



3 Interior Elevation
 A4.3 101 RECEPTION/102 WORKROOM
 3/8"=1'-0"

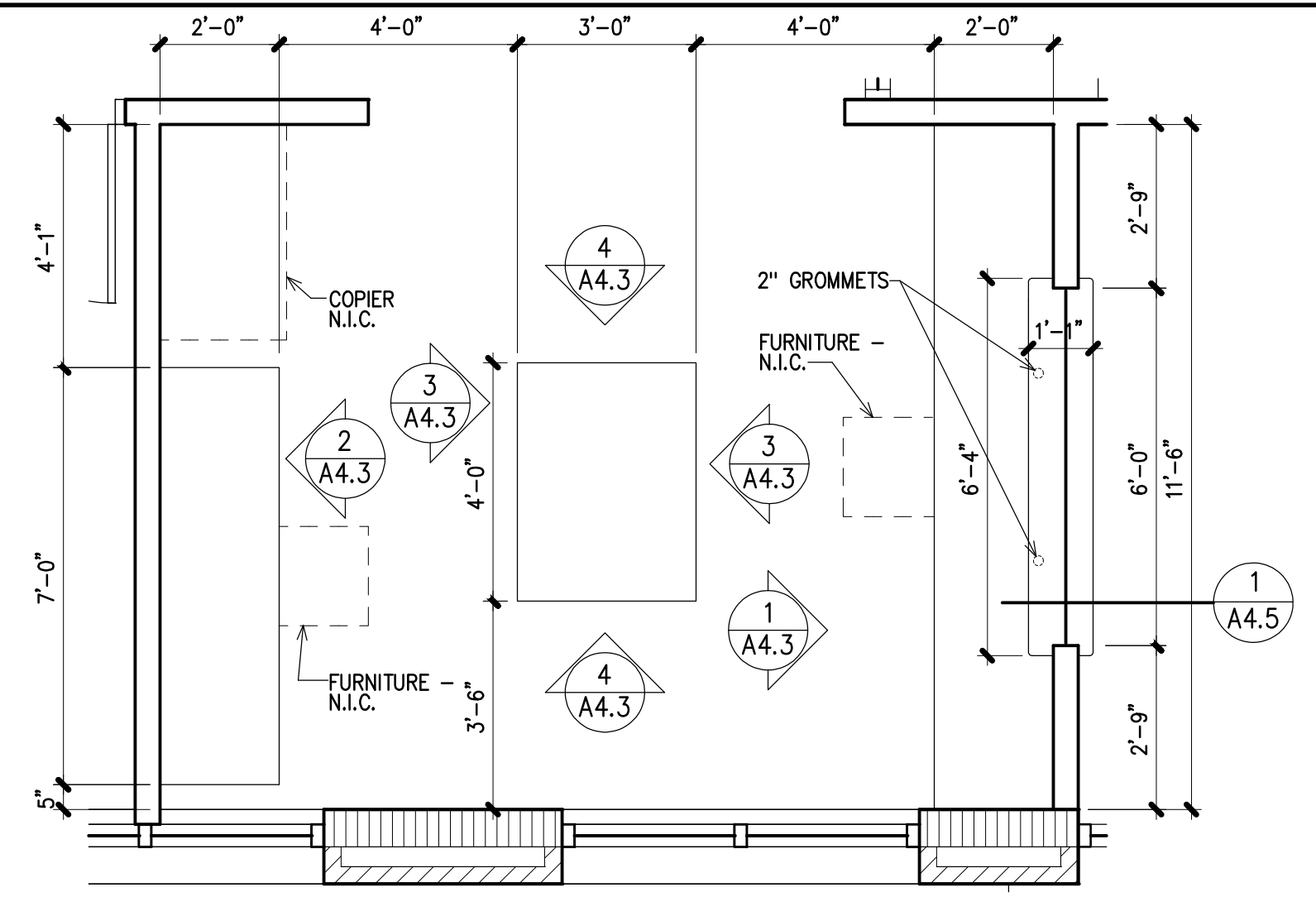


4 Interior Elevation
 A4.3 101 RECEPTION/102 WORKROOM
 3/8"=1'-0"

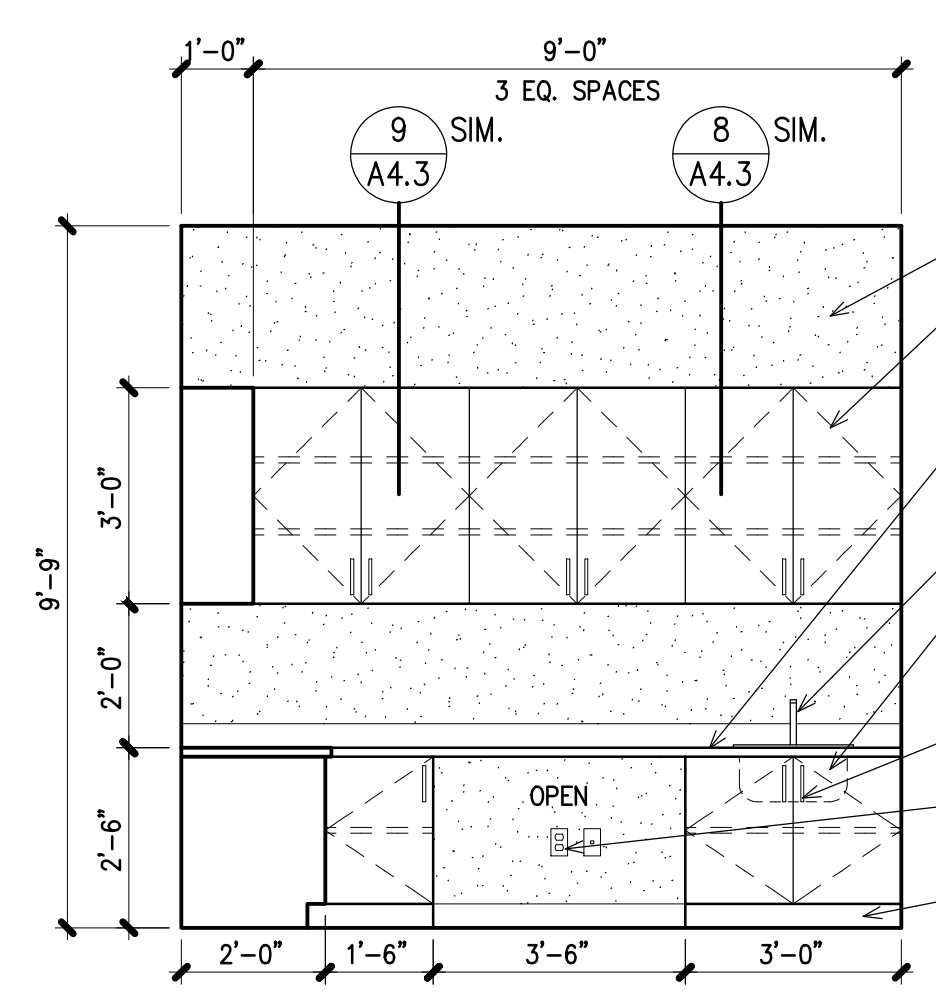


2 Interior Elevation
 A4.3 101 RECEPTION/102 WORKROOM
 3/8"=1'-0"

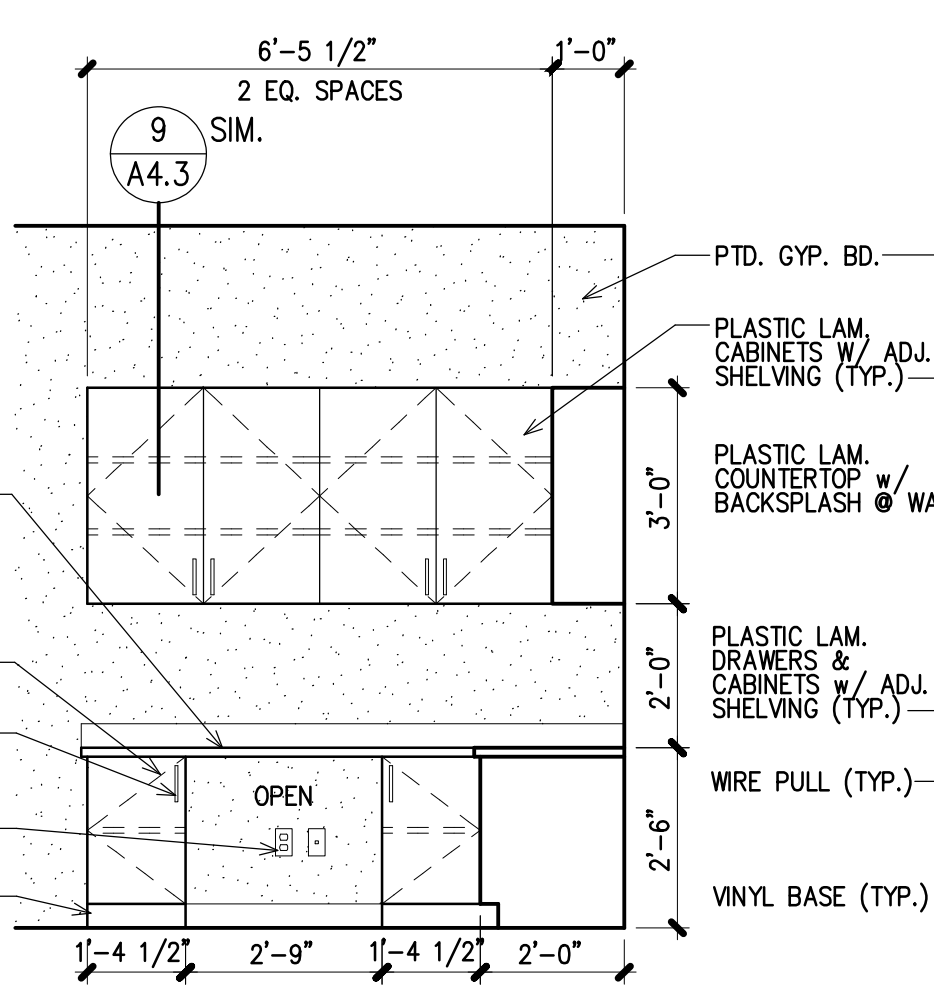
1 Interior Elevation
 A4.3 101 RECEPTION/102 WORKROOM
 3/8"=1'-0"



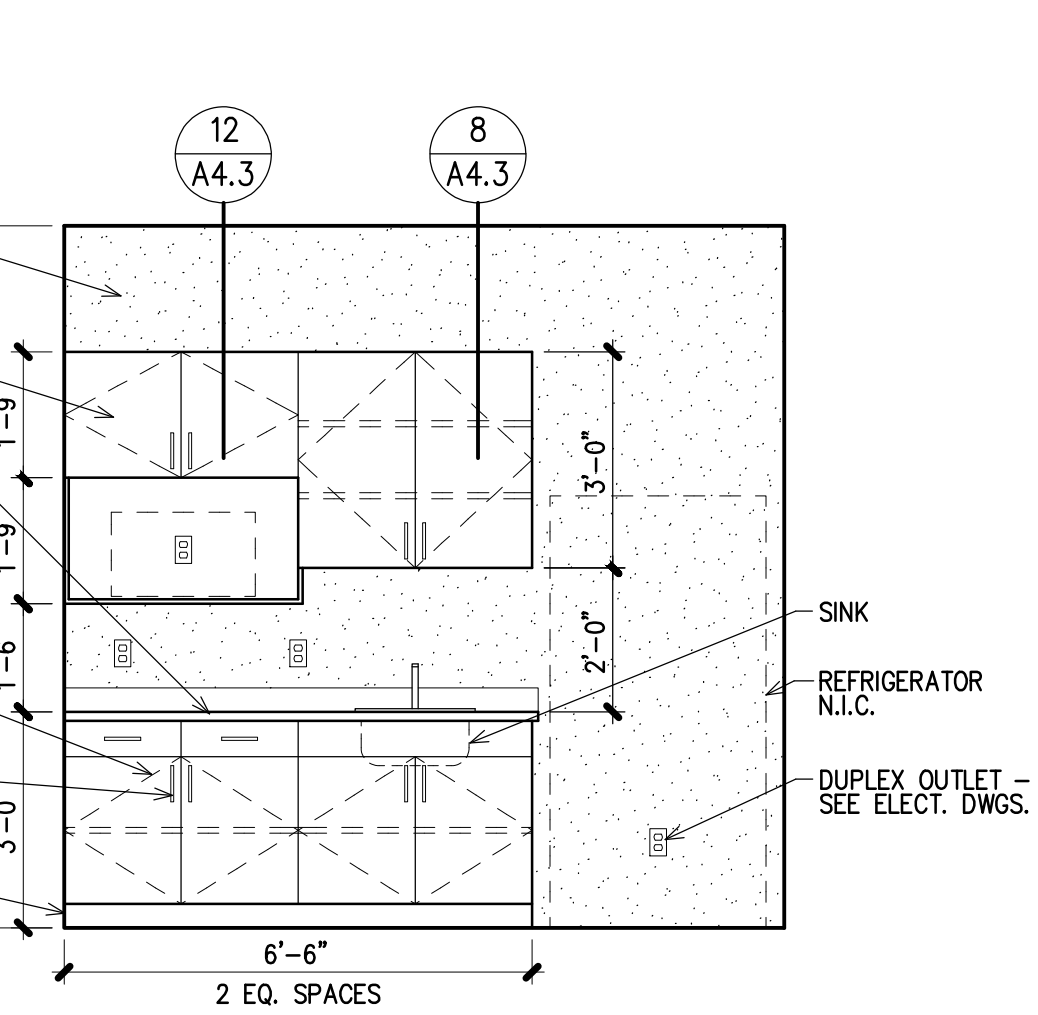
Enlarged Plan
 A4.3 101 RECEPTION/102 WORKROOM
 3/8"=1'-0"



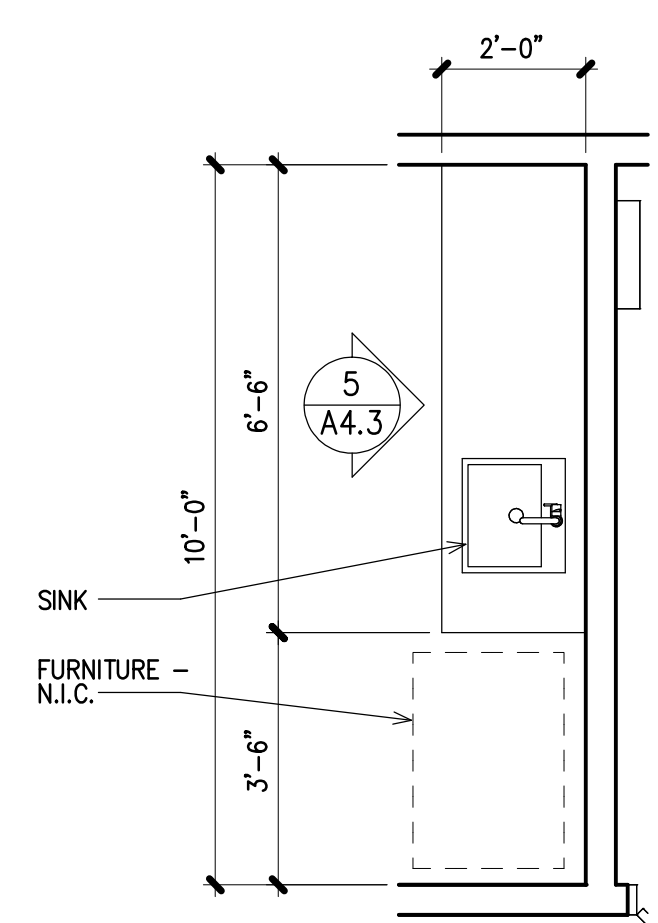
7 Interior Elevation
 A4.3 116 CLINIC
 3/8"=1'-0"



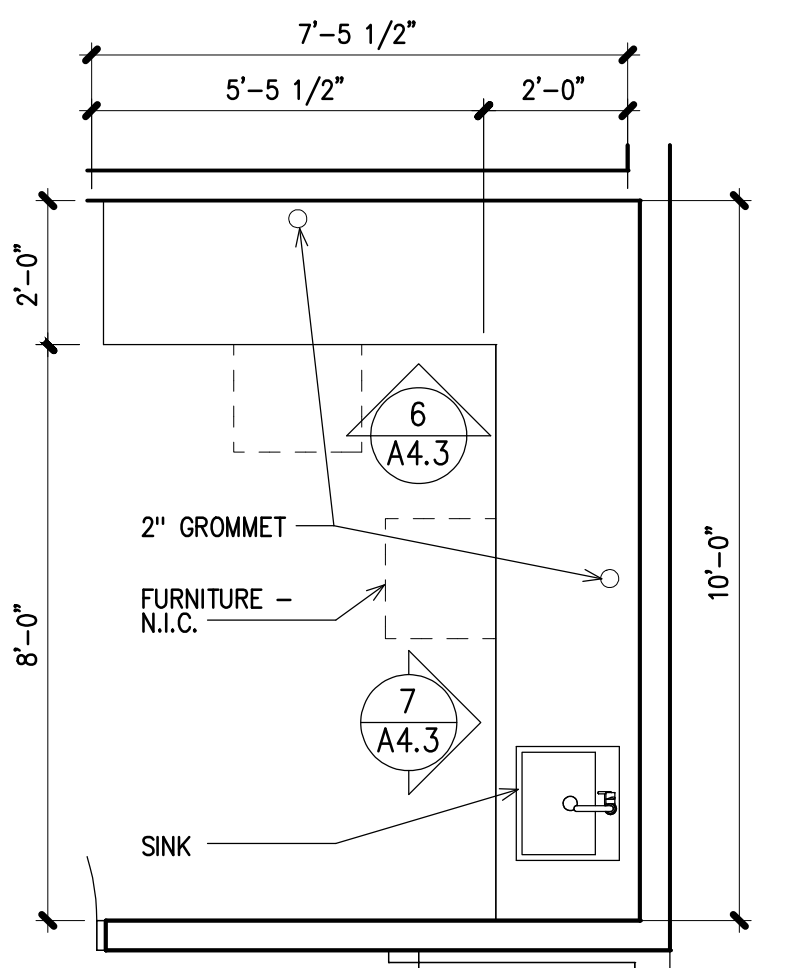
6 Interior Elevation
 A4.3 116 CLINIC
 3/8"=1'-0"



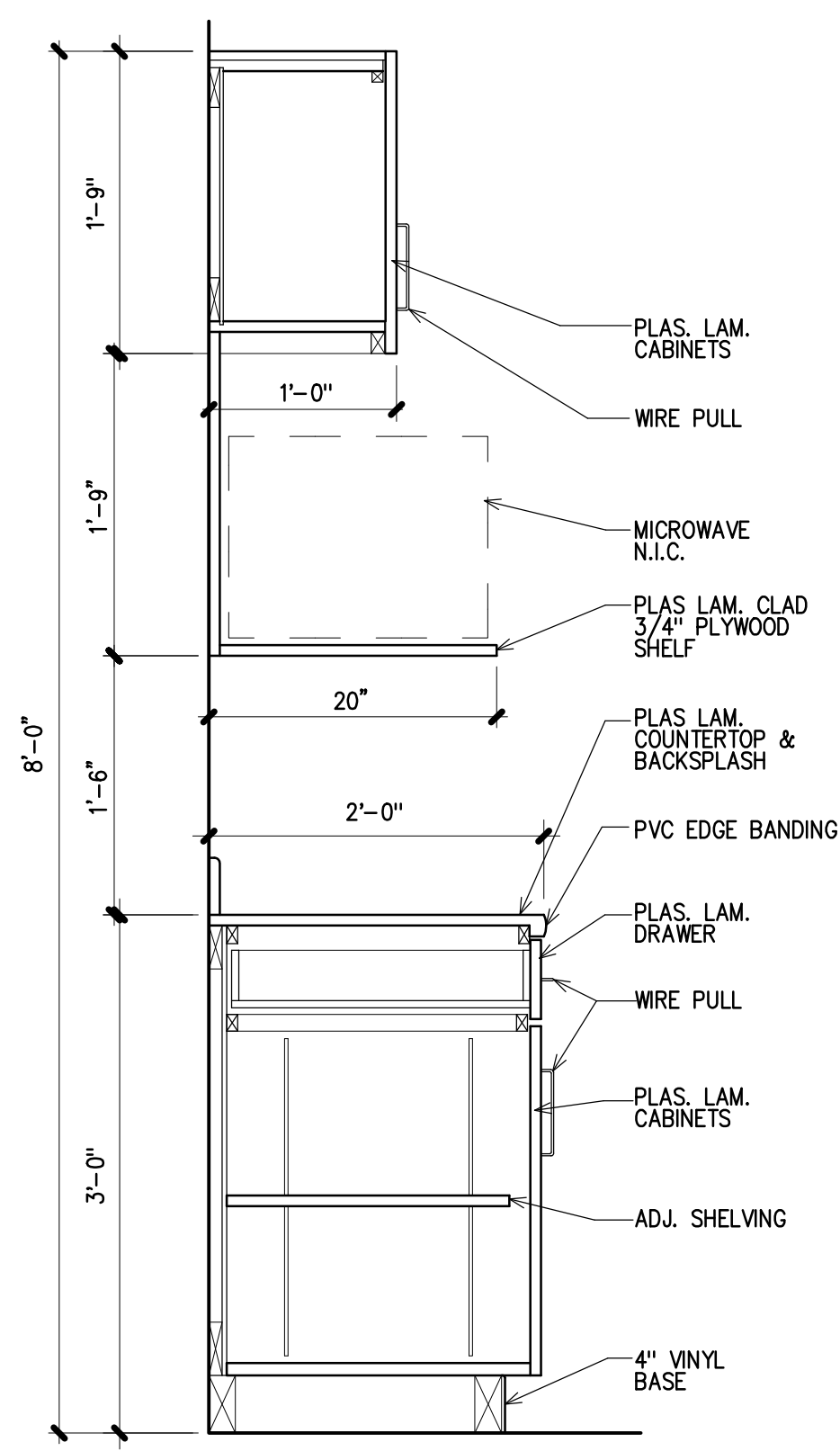
5 Interior Elevation
 A4.3 118 BREAKROOM
 3/8"=1'-0"



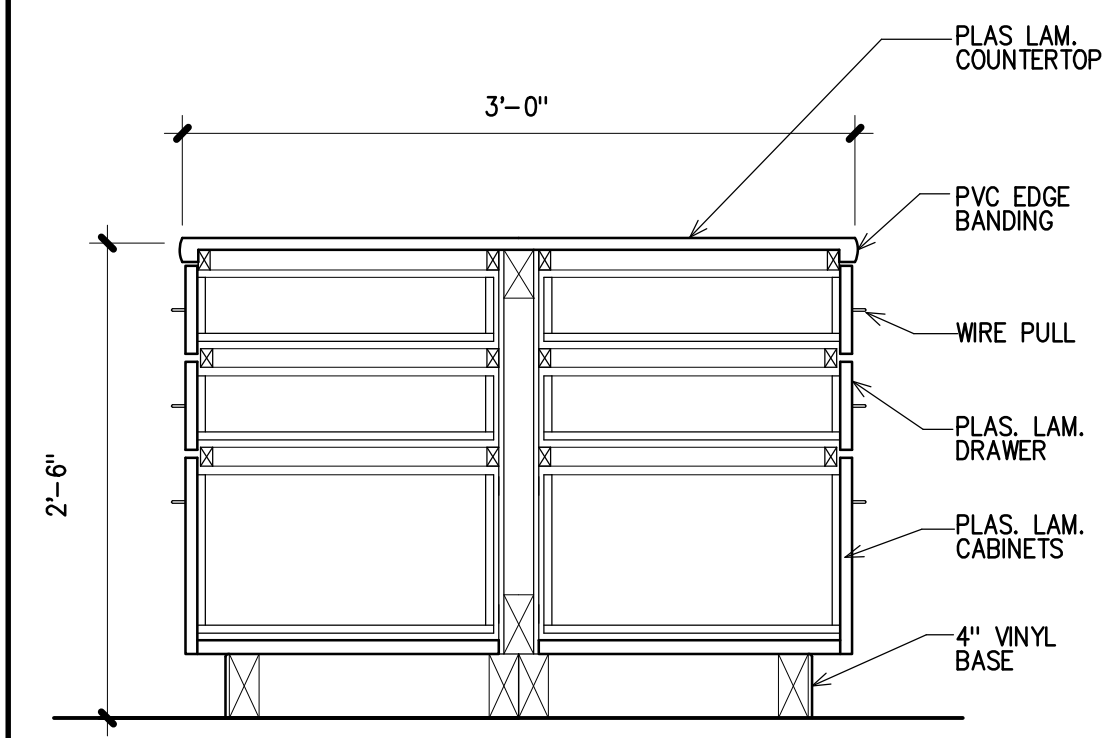
Enlarged Plan
 A4.3 118 BREAKROOM
 3/8"=1'-0"



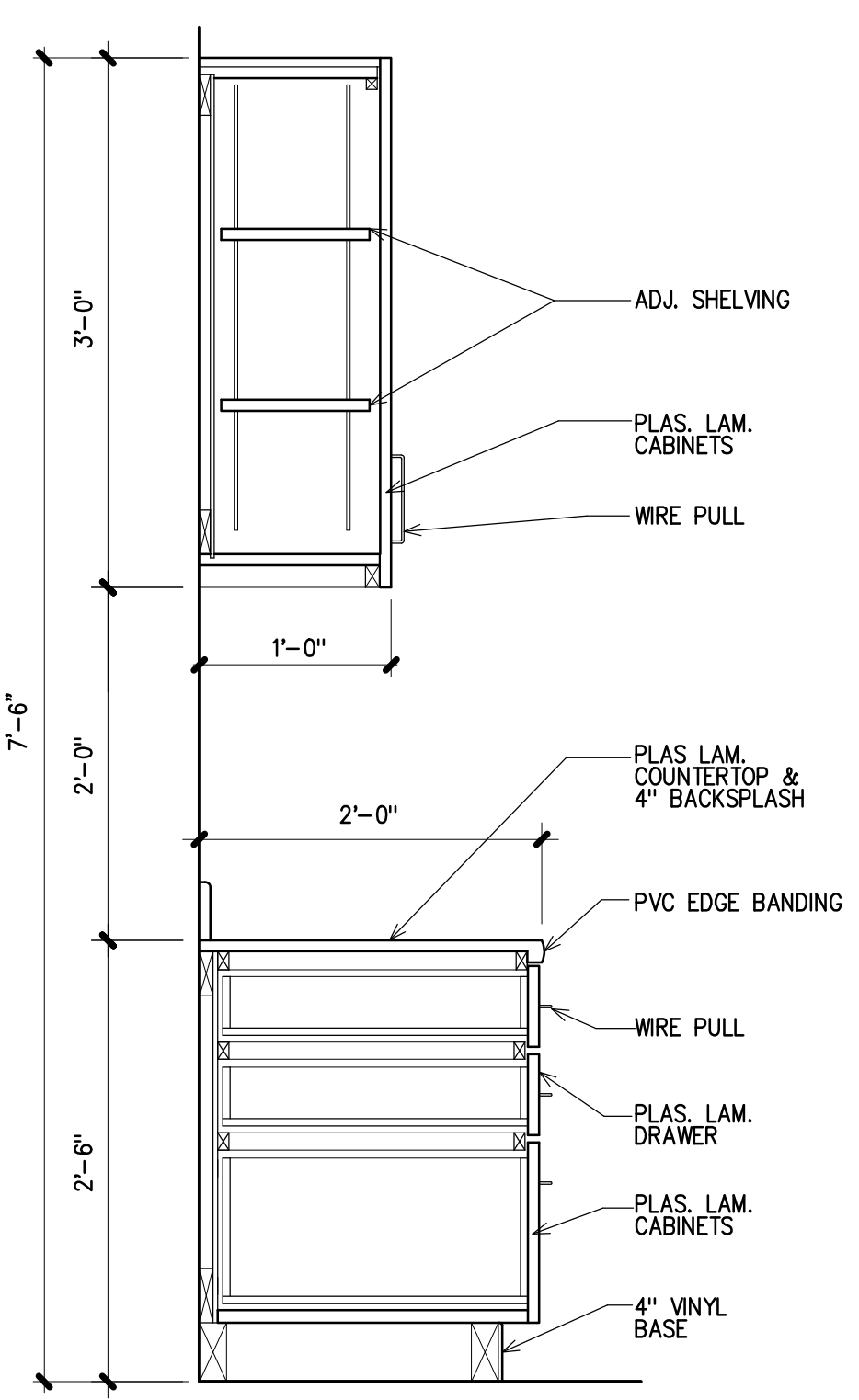
Enlarged Plan
 A4.3 116 CLINIC
 3/8"=1'-0"



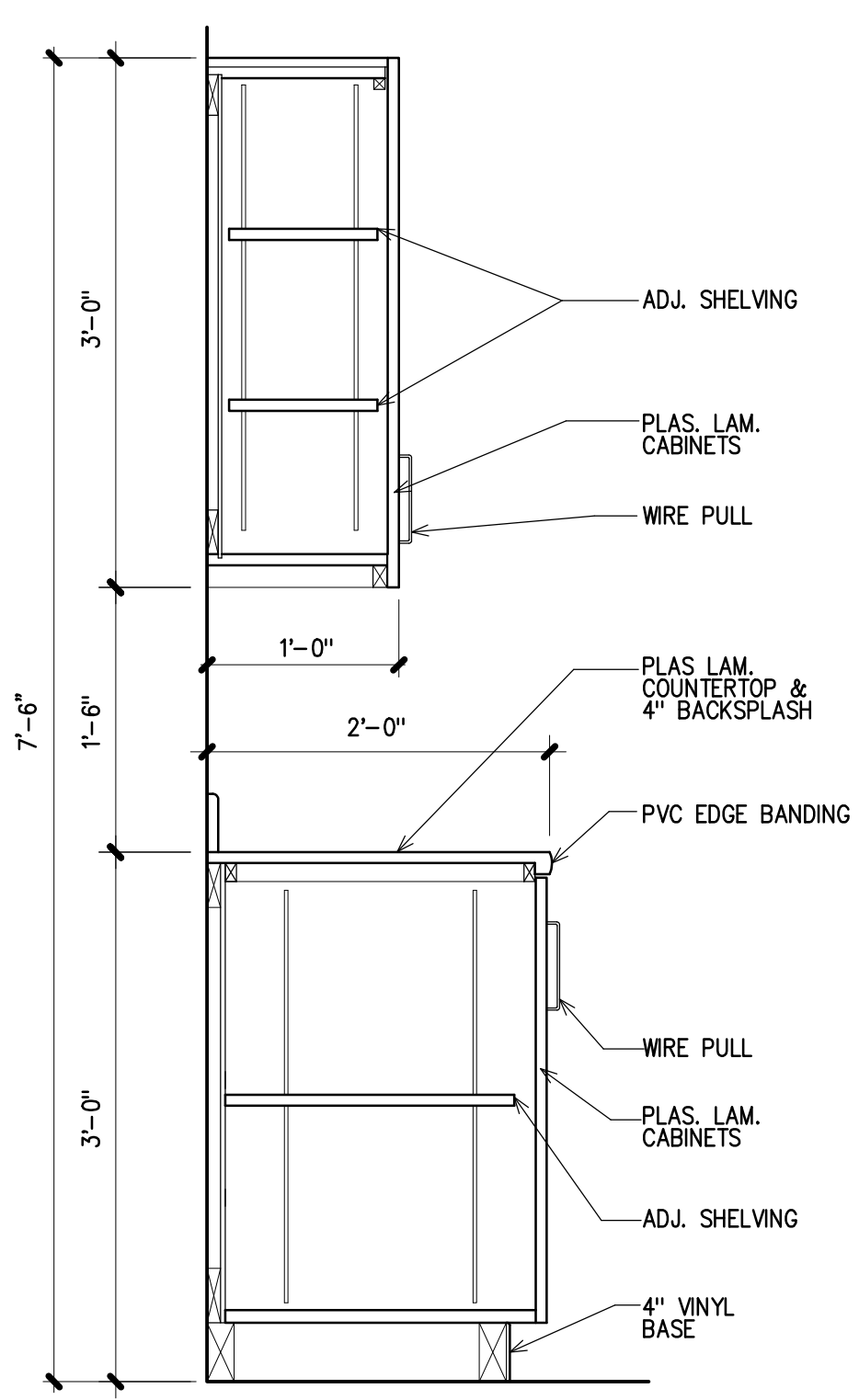
12 Section
 A4.3 CABINET w/ DRAWER @ BREAKROOM
 1"=1'-0"



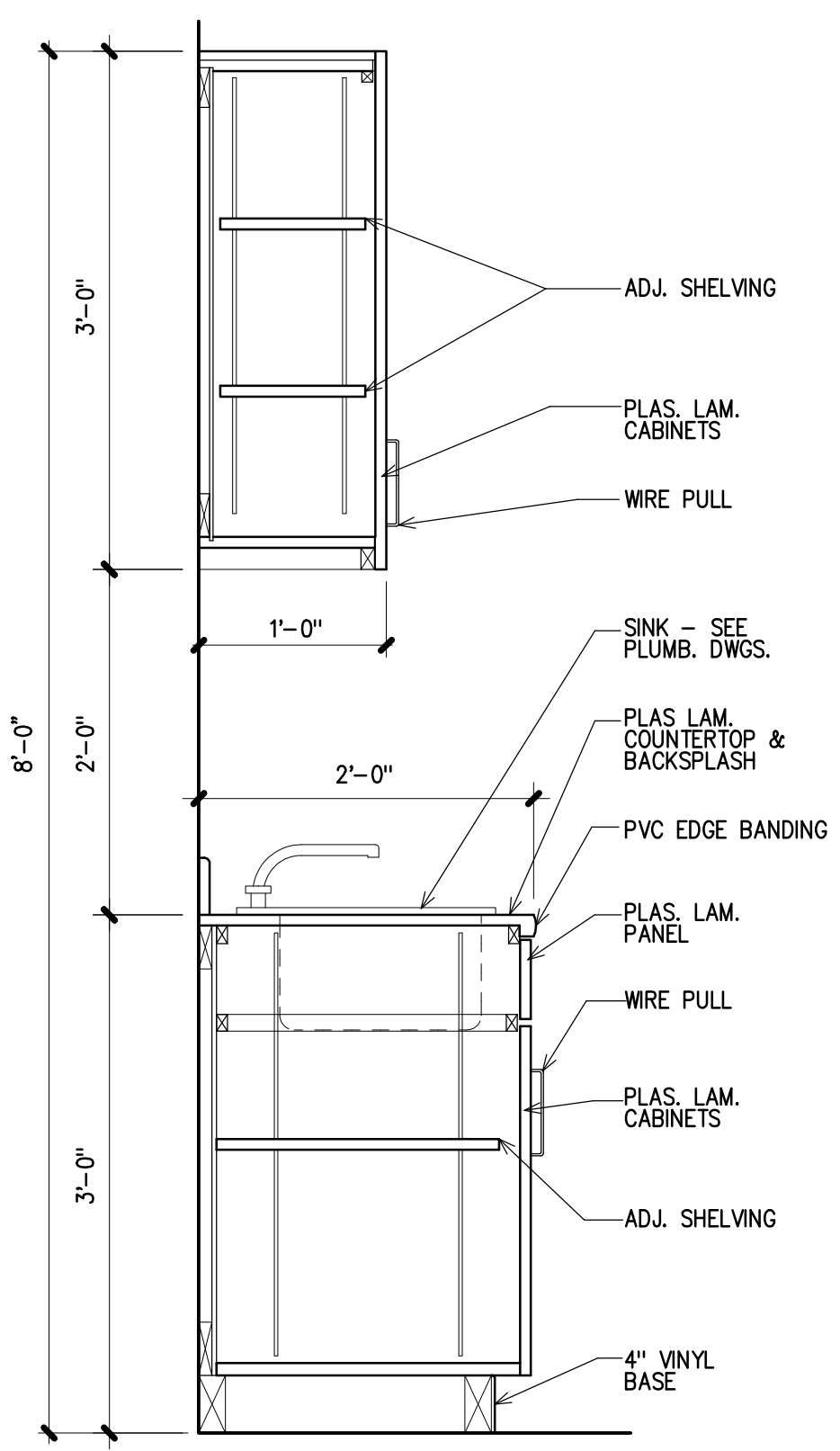
11 Section
 A4.3 DRAWERS
 1"=1'-0"



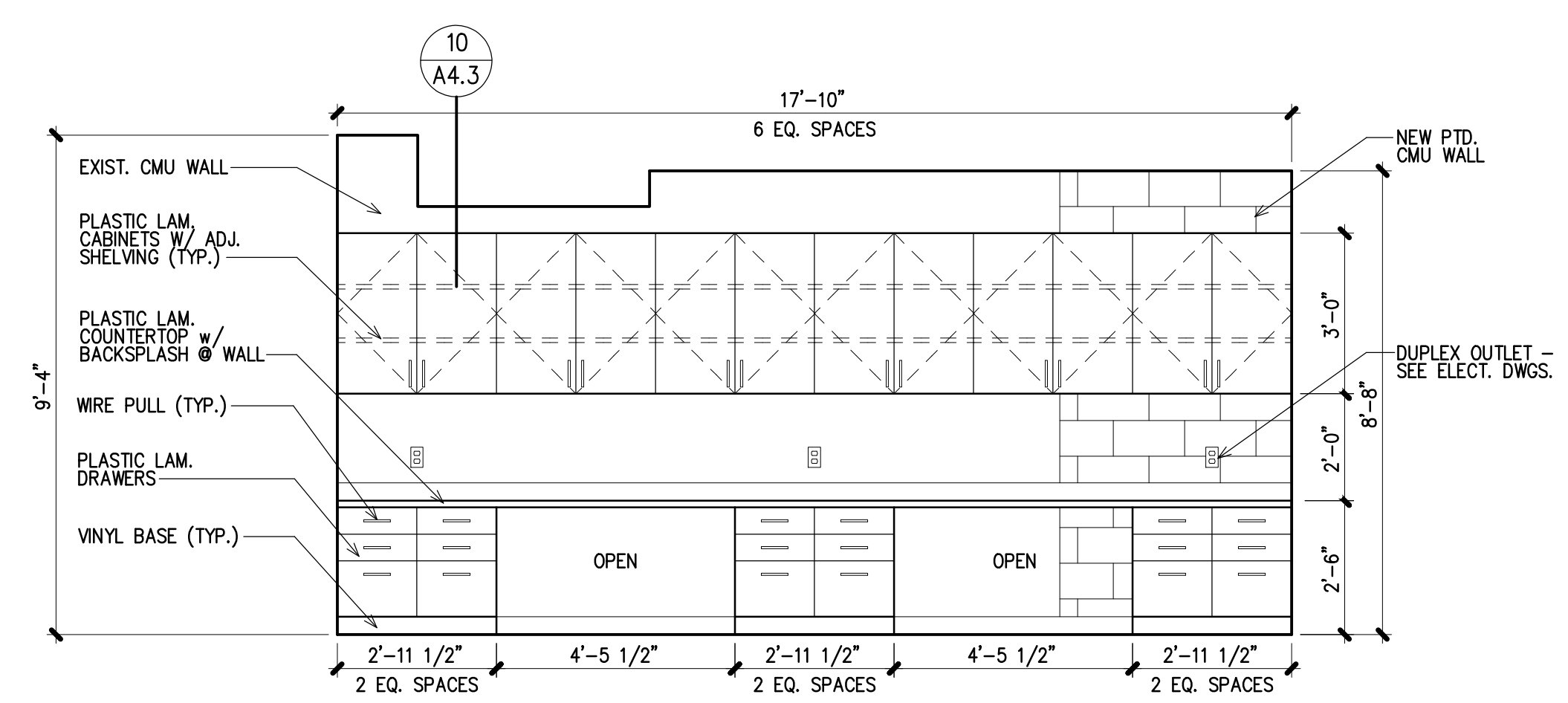
10 Section
 A4.3 DRAWERS
 1"=1'-0"



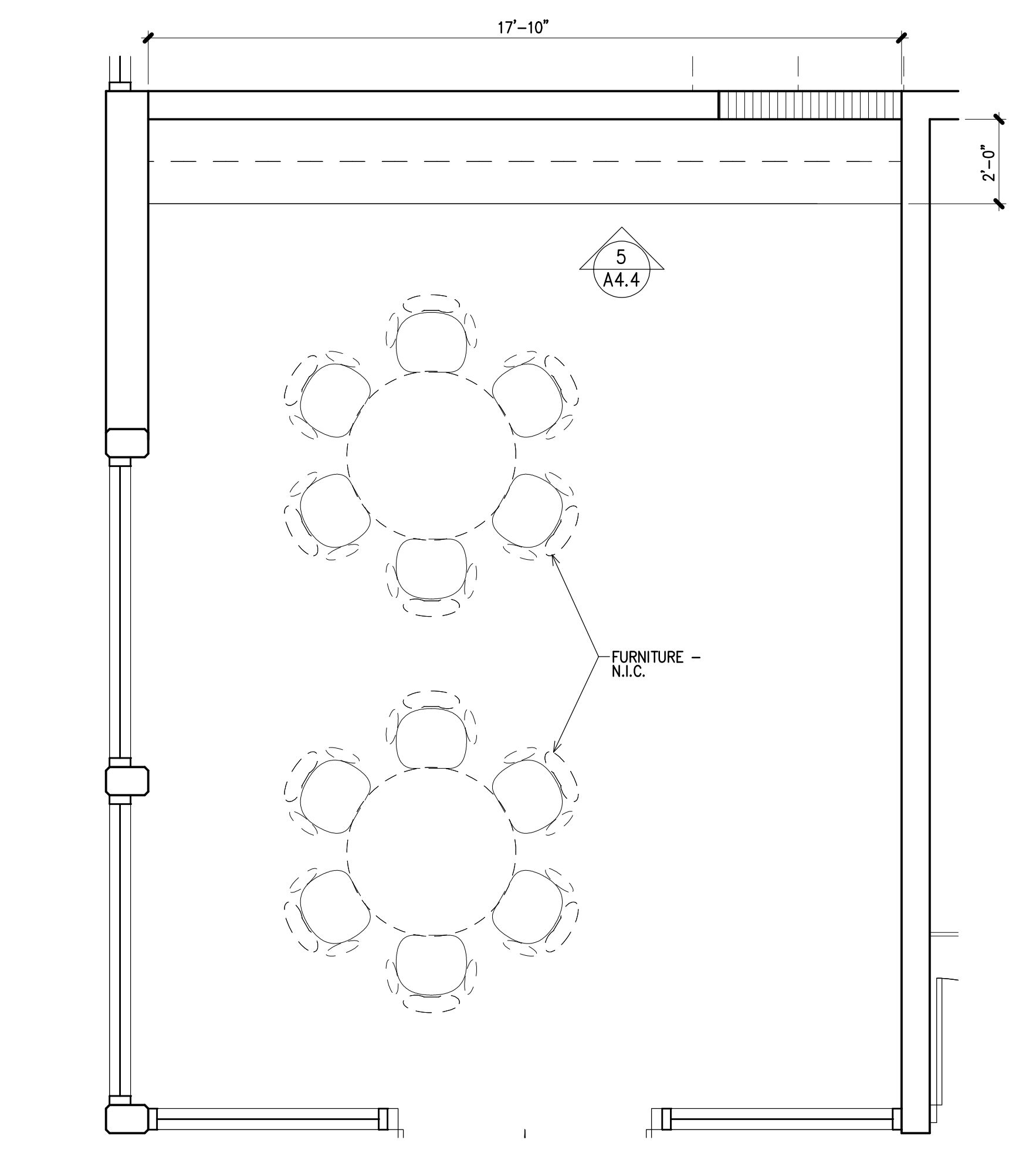
9 Section
 A4.3 TYP. CABINET
 1"=1'-0"



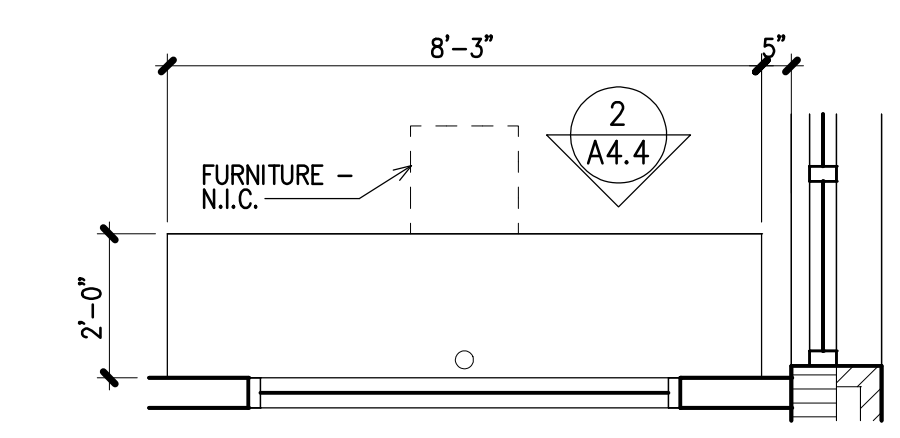
8 Section
 A4.3 CABINET w/ SINK @ CLINIC & BREAKROOM
 1"=1'-0"



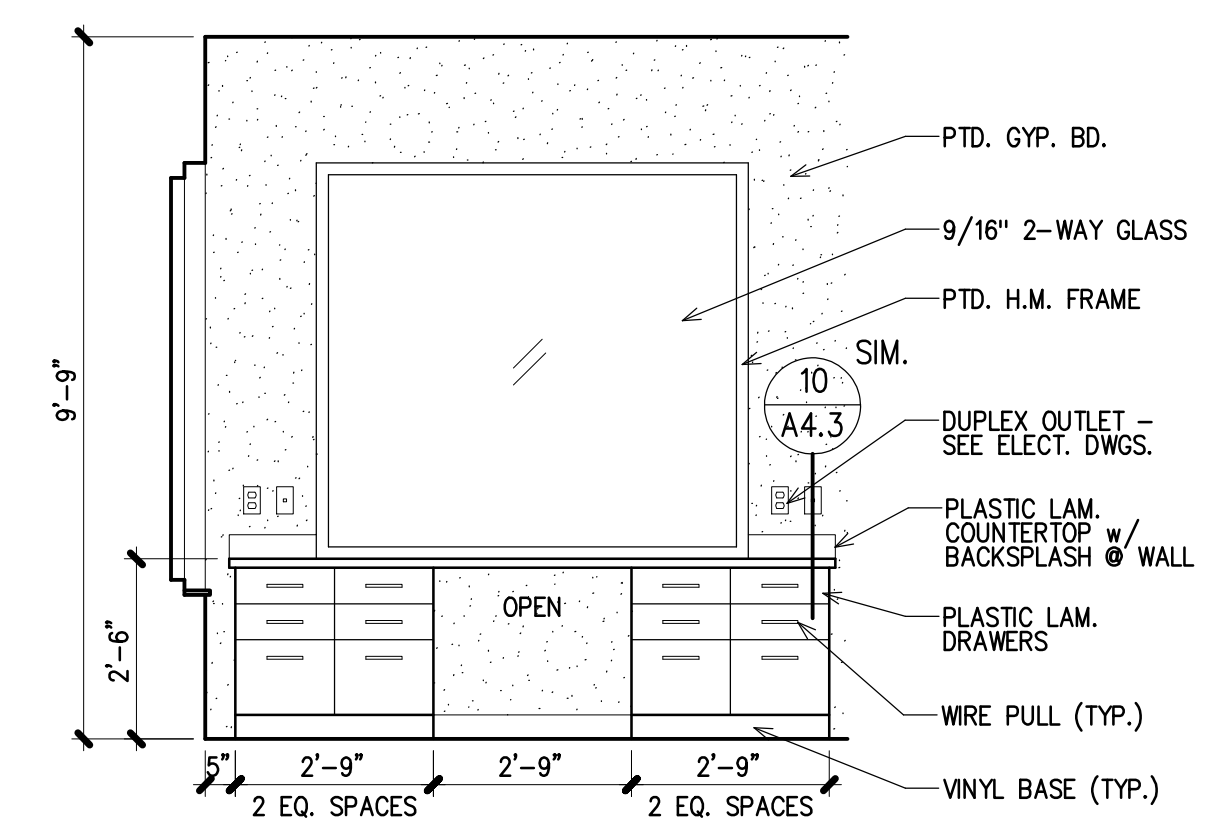
5
A4.4
200 TEACHER RESOURCE
3/8"=1'-0"
BUILDING 2



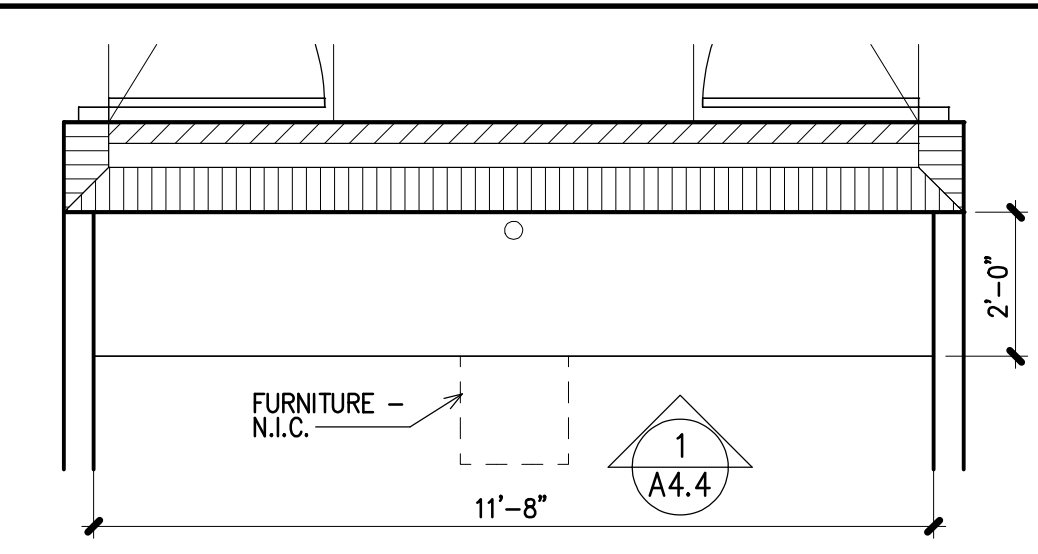
Enlarged Plan
200 TEACHER RESOURCE
3/8"=1'-0"
BUILDING 2



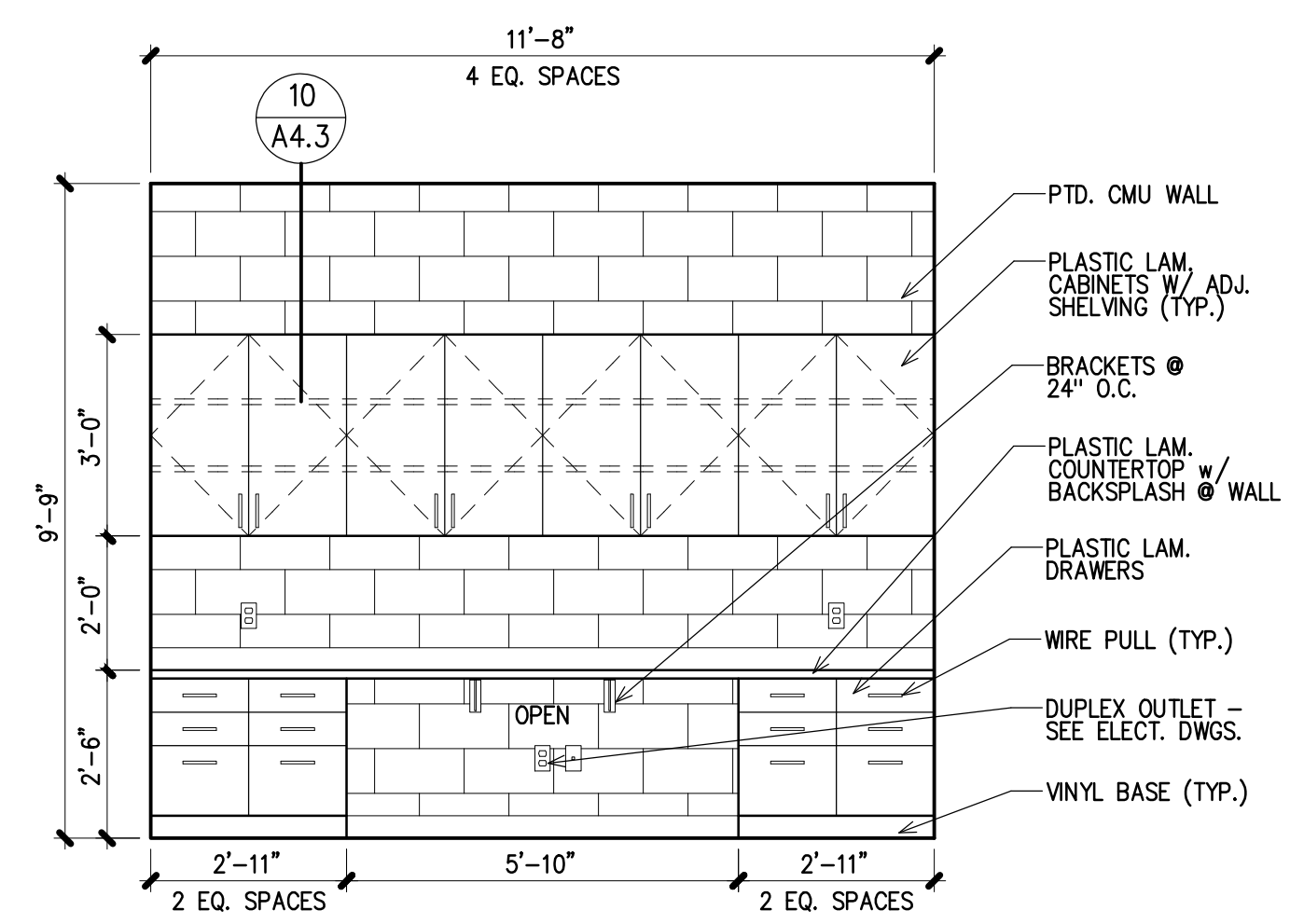
Enlarged Plan
115 SECURITY
3/8"=1'-0"



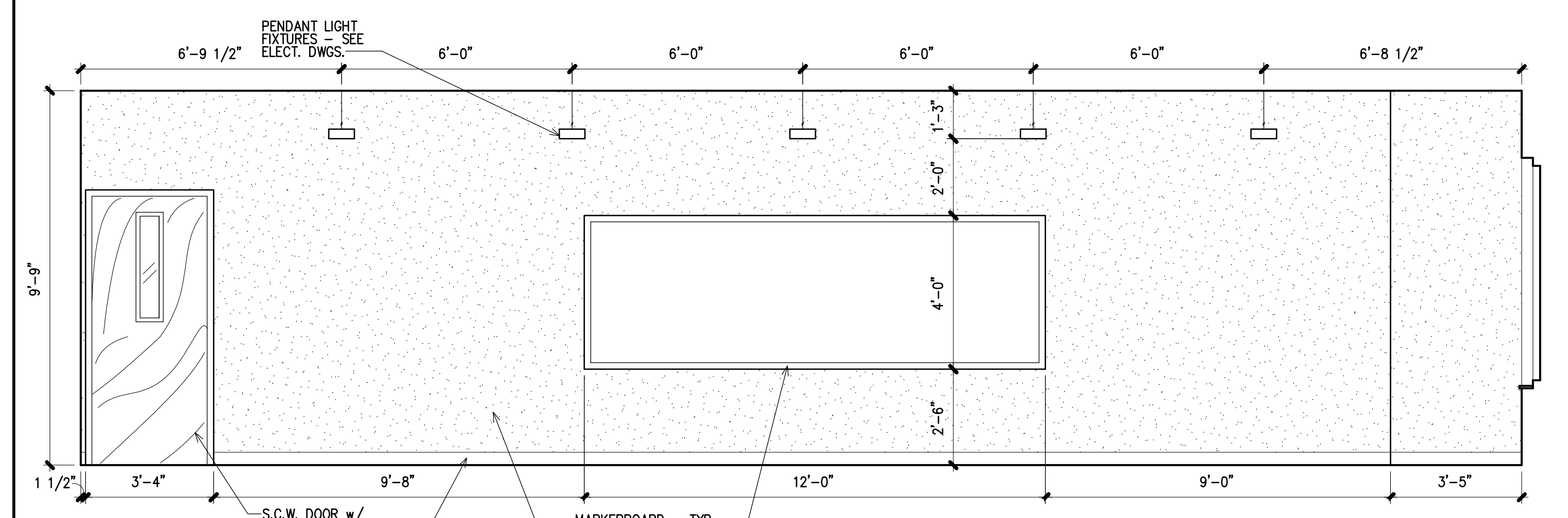
2
A4.4
115 SECURITY
3/8"=1'-0"



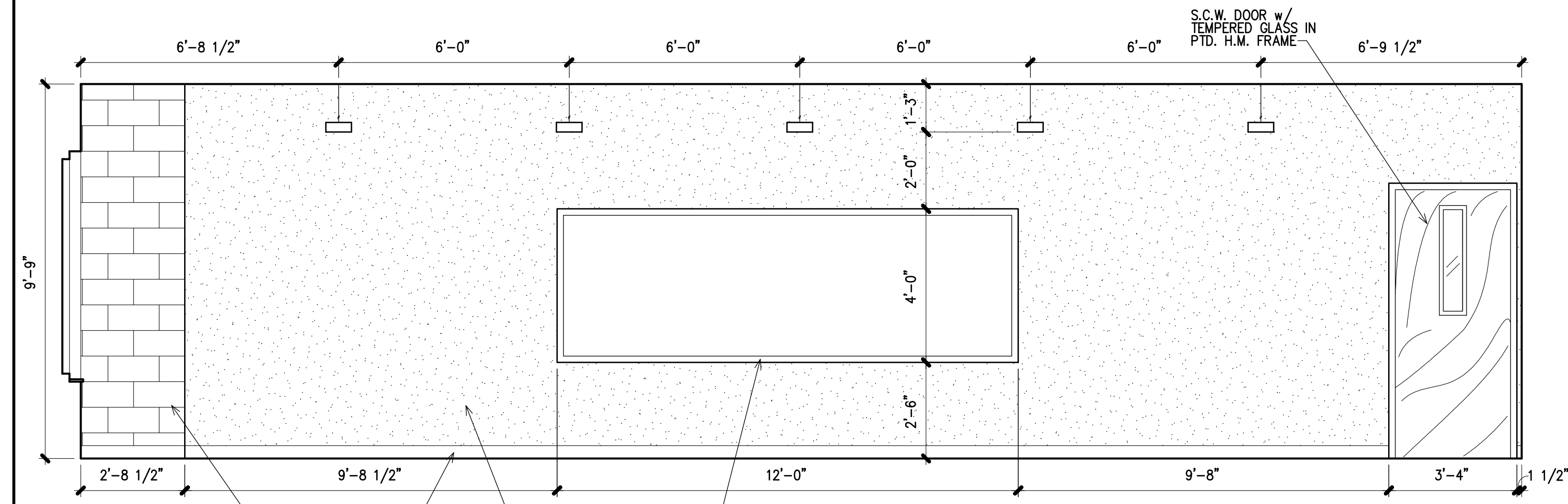
Enlarged Plan
110 TEACHER RESOURCE
3/8"=1'-0"



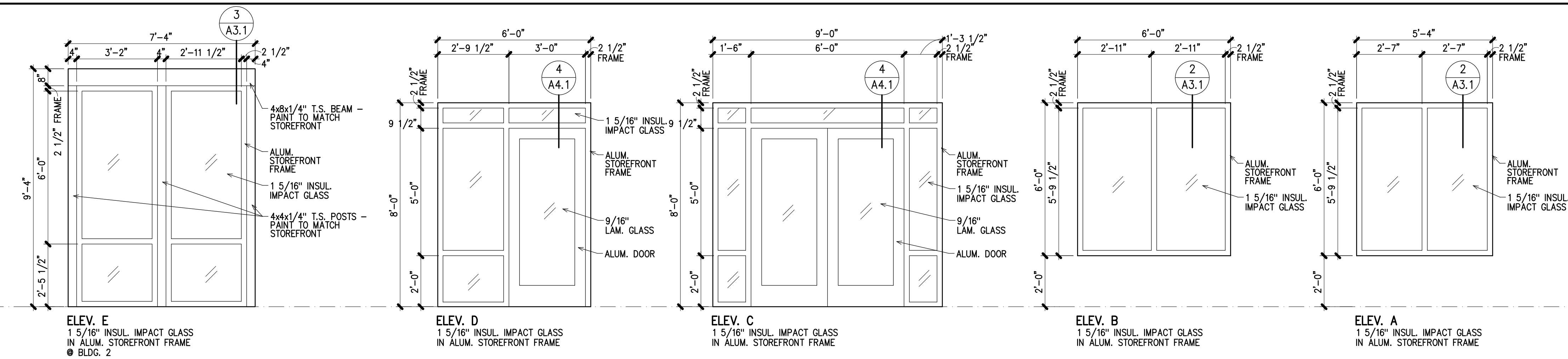
1
A4.4
110 TEACHER RESOURCE
3/8"=1'-0"



3
A4.4
CLASSROOM 109
3/8"=1'-0"



4
A4.4
CLASSROOM 113
3/8"=1'-0"



ELEV. E
1 5/16" INSUL. IMPACT GLASS
IN ALUM. STOREFRONT FRAME
@ BLDG. 2

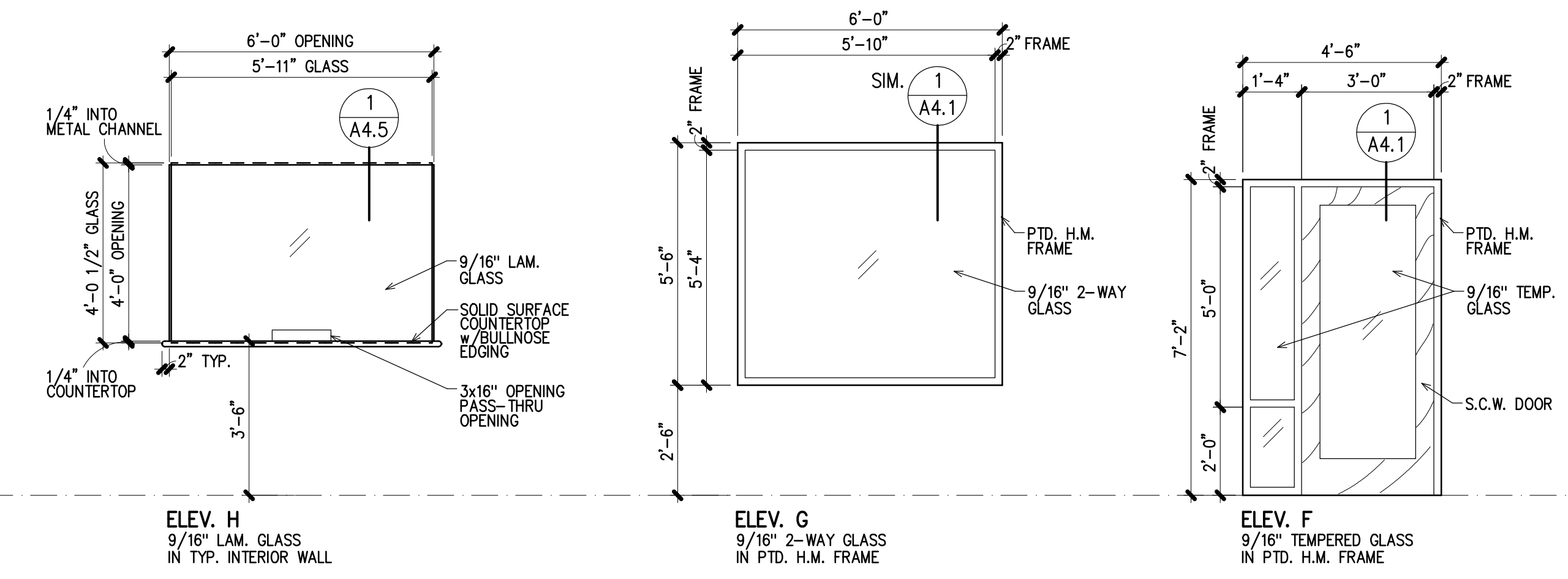
ELEV. D
1 5/16" INSUL. IMPACT GLASS
IN ALUM. STOREFRONT FRAME

ELEV. C
1 5/16" INSUL. IMPACT GLASS
IN ALUM. STOREFRONT FRAME

ELEV. B
1 5/16" INSUL. IMPACT GLASS
IN ALUM. STOREFRONT FRAME

ELEV. A
1 5/16" INSUL. IMPACT GLASS
IN ALUM. STOREFRONT FRAME

Exterior Windows
3/8"=1'-0"

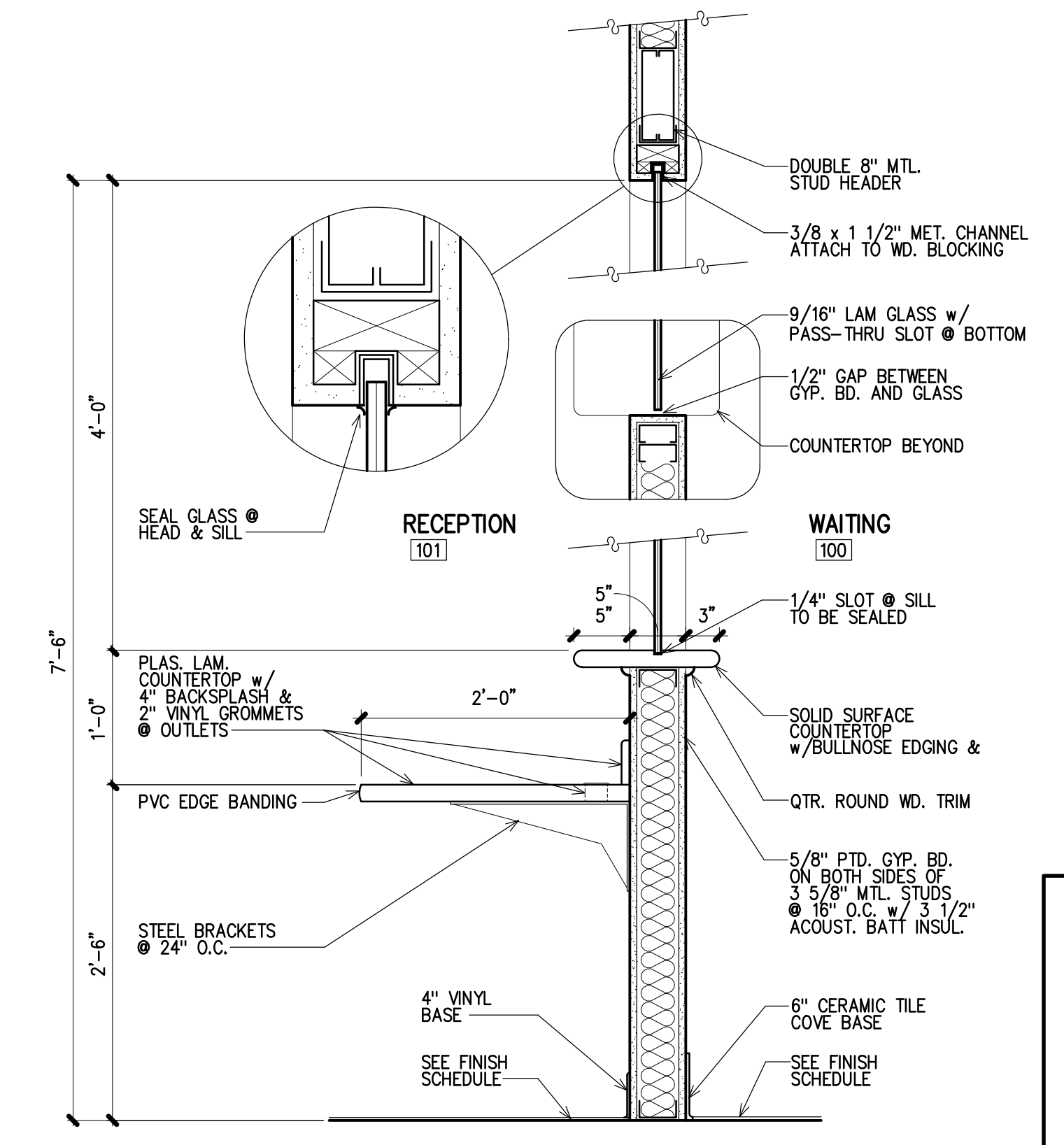


ELEV. H
9/16" LAM. GLASS
IN TYP. INTERIOR WALL

ELEV. G
9/16" 2-WAY GLASS
IN PTD. H.M. FRAME

ELEV. F
9/16" TEMPERED GLASS
IN PTD. H.M. FRAME

Interior Windows
3/8"=1'-0"



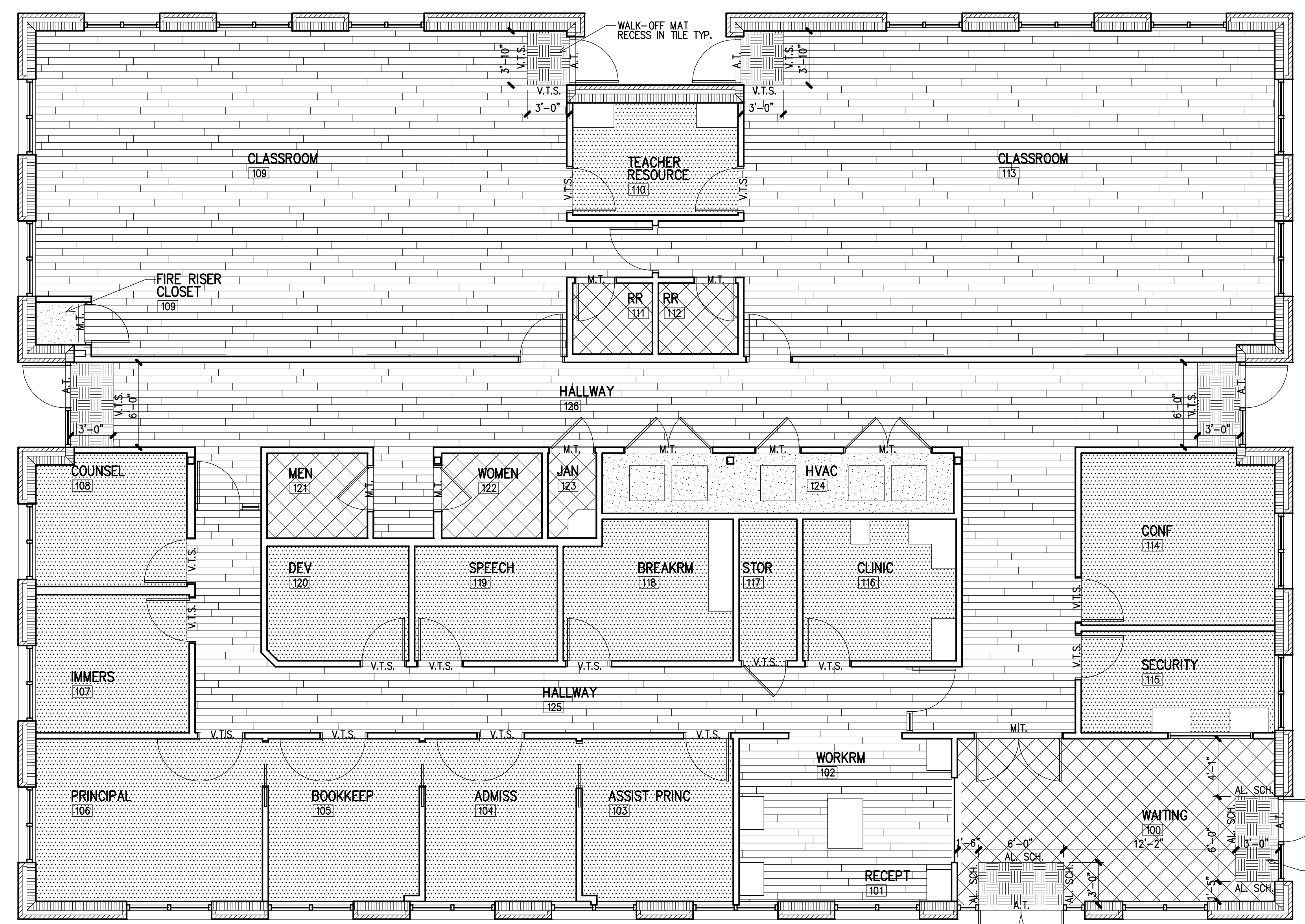
1 Section
A4.5 @ RECEPTION COUNTER 1"=1'-0"

FLOOR FINISH LEGEND

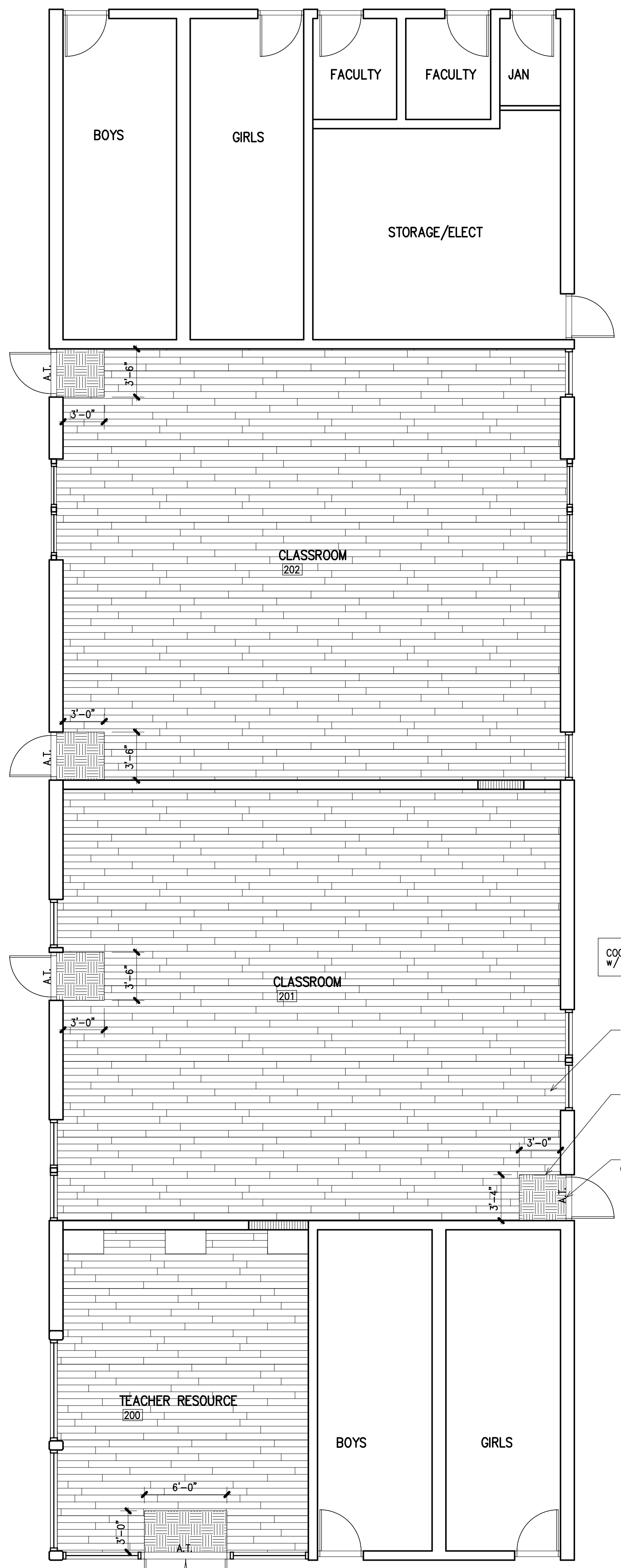
- MODULAR CARPET TILE
- LUXURY VINYL TILE (LVT)
- 12"x12" CERAMIC FLOOR TILE w/ DARK GROUT
- EPOXY PAINTED CONC.
- WALK-OFF MAT
- NEW LUXURY VINYL TILE (LVT)

A.T. ALUMINUM THRESHOLD
 V.T.S. VINYL TRANSITION STRIP
 M.T. MARBLE THRESHOLD
 AL. SCH. ALUM. SCHLUTER STRIP

COORDINATE COLOR & STYLE w/ OWNER & ARCHITECT



Floor Finishes Plan
 3/16"=1'-0"



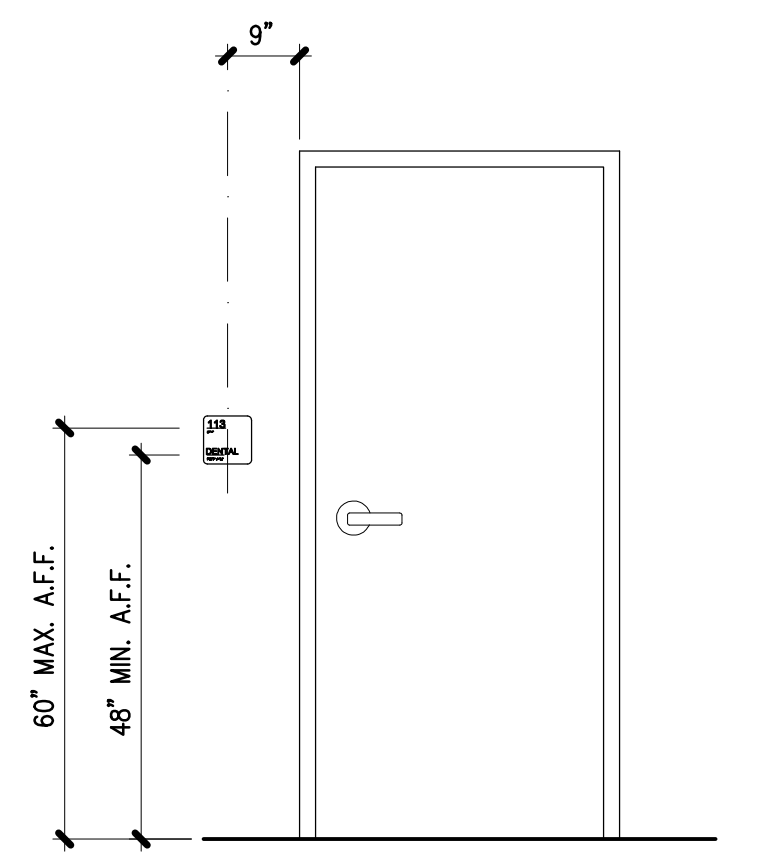
COORDINATE COLOR & STYLE w/ OWNER & ARCHITECT

NEW LUXURY VINYL TILE

NEW WALK-OFF MAT RECESS IN TILE - TYP.

NEW ALUM. THRESHOLDS @ ALL NEW FLOOR FINISHES

Floor Finishes Plan
 BLDG. 2 3/16"=1'-0"



Sign Mounting (Typ.)
 ADA SIGN INSTALLATION HEIGHT & LOCATION 1/2"=1'-0"

FINISH SCHEDULE

| ROOM NO. | ROOM NAME | FLOOR | | BASE | WALLS | CEILING | REMARKS | | | |
|----------|-------------------|----------------|----------------|---------------|-------|----------|---------|---------|---------------------|--------------------------|
| | | 1 CERAMIC TILE | 2 WALK-OFF MAT | 3 EPOXY PAINT | 4 LVT | 5 CARPET | | 6 VINYL | 7 CERAMIC TILE COVE | 8 PTD. GYP. BD. PTD. CMU |
| 100 | WAITING | | | | | | | | | |
| 101 | RECEPTION | | | | | | | | | |
| 102 | WORKROOM | | | | | | | | | |
| 103 | ASSIST. PRINCIPAL | | | | | | | | | |
| 104 | ADMISSIONS | | | | | | | | | |
| 105 | BOOKKEEPING | | | | | | | | | |
| 106 | PRINCIPAL | | | | | | | | | |
| 107 | IMMERS | | | | | | | | | |
| 108 | COUNSEL | | | | | | | | | |
| 109 | CLASSROOM | 2 | 4 | | | | | | | |
| 110 | TEACHER RESOURCE | | | | | | | | | |
| 111 | RESTROOM | 1 | | | | | | | | |
| 112 | RESTROOM | 1 | | | | | | | | |
| 113 | CLASSROOM | 2 | 4 | | | | | | | |
| 114 | CONFERENCE ROOM | | | | | | | | | |
| 115 | SECURITY | | | | | | | | | |
| 116 | CLINIC | | | | | | | | | |
| 117 | STORAGE | | | | | | | | | |
| 118 | BREAKROOM | | | | | | | | | |
| 119 | SPEECH | | | | | | | | | |
| 120 | DEVELOPMENT | | | | | | | | | |
| 121 | MEN | 1 | | | | | | | | |
| 122 | WOMEN | 1 | | | | | | | | |
| 123 | JANITOR CLOSET | 1 | | | | | | | | |
| 124 | HVAC | 3 | | | | | | | | |
| 125 | HALLWAY | | 4 | | | | | | | |
| 126 | HALLWAY | 2 | 4 | | | | | | | |
| 127 | FIRE RISER CLOSET | 3 | | | | | | | | |
| 200 | TEACHER RESOURCE | 2 | 4 | | | | | | | |
| 201 | CLASSROOM | 2 | 4 | | | | | | | |
| 202 | CLASSROOM | 2 | 4 | | | | | | | |

NOTE:
 1. DO NOT INSTALL BASE STOREFRONT WINDOW WALLS.

DEMO CEILING LEGEND

| | |
|--|--|
| | REMOVE EXIST. 2X2 ACoust. LAY-IN CLG. TILE & GRID |
| | REMOVE EXIST. 2X4 LIGHT FIXTURES - SEE ELECT. DWGS. |
| | REMOVE SURFACE MTD. LINEAR LIGHTS - SEE ELECT. DWGS. |
| | REMOVE EXIST. WALL SCONCE - SEE ELECT. DWGS. |
| | REMOVE EXIST. SUSPENDED LIGHT FIXTURE - SEE ELECT. DWGS. |
| | REMOVE EXIST. CLG. MTD. PROJECTORS |
| | REMOVE EXIST. SUPPLY & RETURN AIR FIXTURES - SEE MECH. DWGS. |
| | REMOVE EXIST. PTD. GYP. BD. CLG. & SUSPENDED MTL. STUDS |

DEMO LEGEND

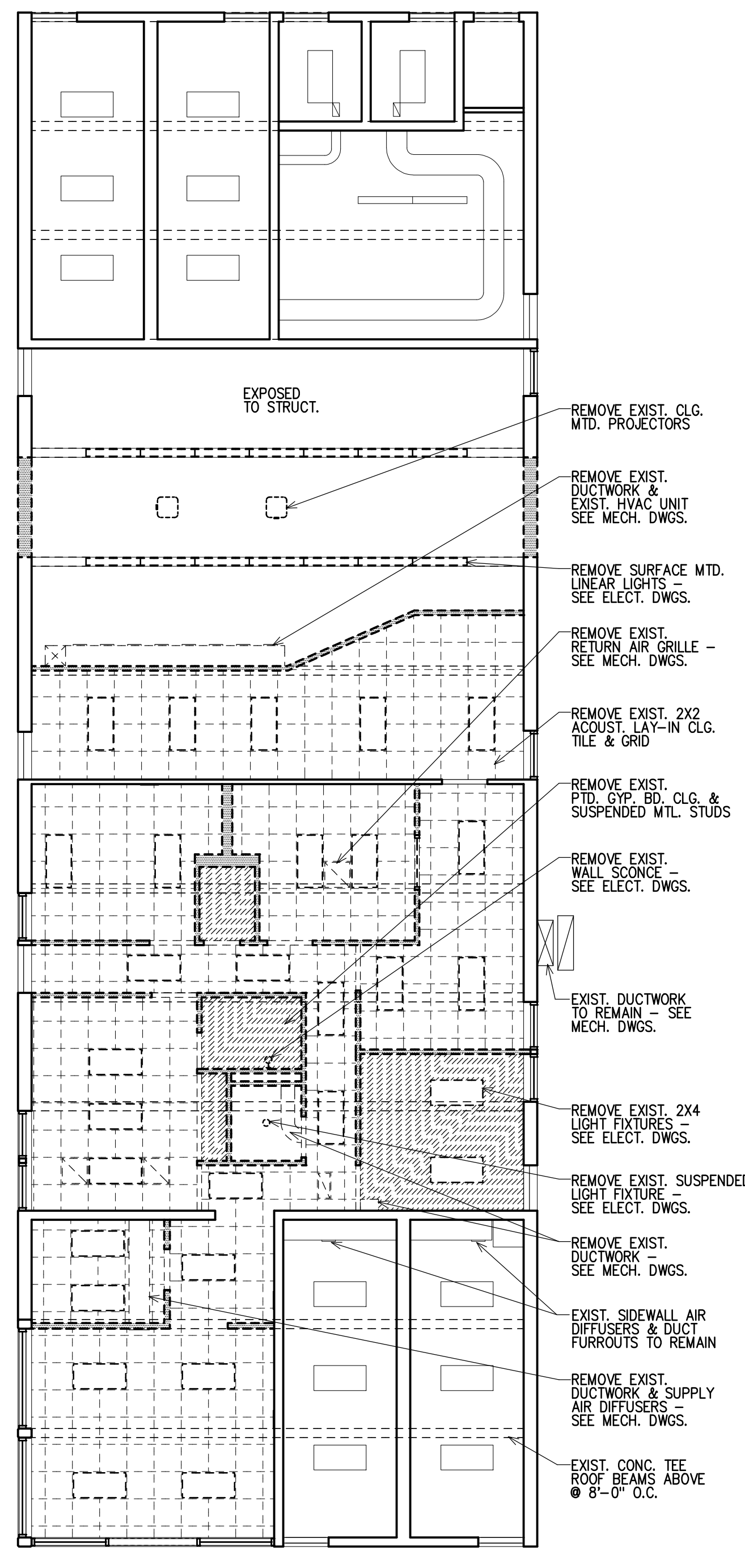
| | | | |
|--|---|--|---|
| | REMOVE EXIST. CARPET & BASE - PREP. SLAB FOR NEW FLOORING | | EXIST. DOORS & FRAMES TO REMAIN |
| | PREP. EXIST. TERRAZZO FOR NEW FLOORING - REMOVE EXIST. BASE | | EXIST. WINDOWS TO REMAIN |
| | PREP. EXIST. VCT FOR NEW FLOORING - REMOVE EXIST. BASE | | EXIST. WALLS TO REMAIN |
| | REMOVE EXIST. PORCELAIN TILE - PREP. SLAB FOR NEW FLOORING | | REMOVE EXIST. WALLS |
| | | | REMOVE EXIST. FIXTURES - SEE PLUMB. DWGS. |
| | | | REMOVE EXIST. DOORS & FRAMES |
| | | | REMOVE EXIST. WINDOW |
| | | | REMOVE EXIST. CASEWORK |

CEILING LEGEND

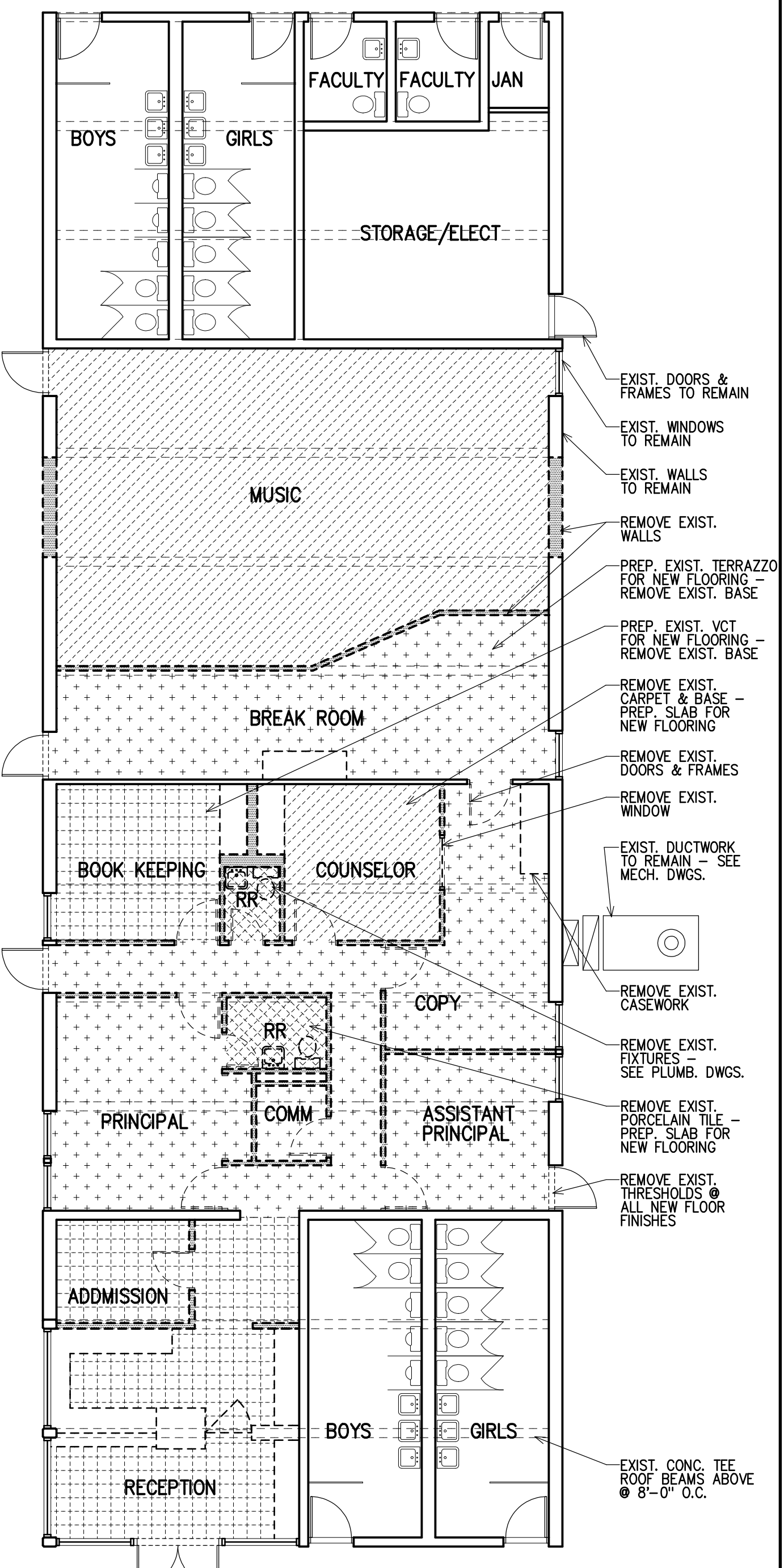
| | |
|------|--|
| | NEW 2X2 LAY-IN ACoust. CLG. TILE & GRID |
| | 5/8" PTD. GYP. BD. ON MTL. STUDS @ 16" O.C. |
| | NEW 2X2 LIGHT FIXTURES - SEE ELECT. DWGS. |
| C.H. | CEILING HEIGHT |
| SD | SIDEWALL SUPPLY AIR DIFFUSER - SEE MECH. DWGS. |
| RAR | SIDEWALL RETURN AIR REGISTER - SEE MECH. DWGS. |
| | NEW SUPPLY & RETURN AIR FIXTURES - SEE MECH. DWGS. |

WALL LEGEND

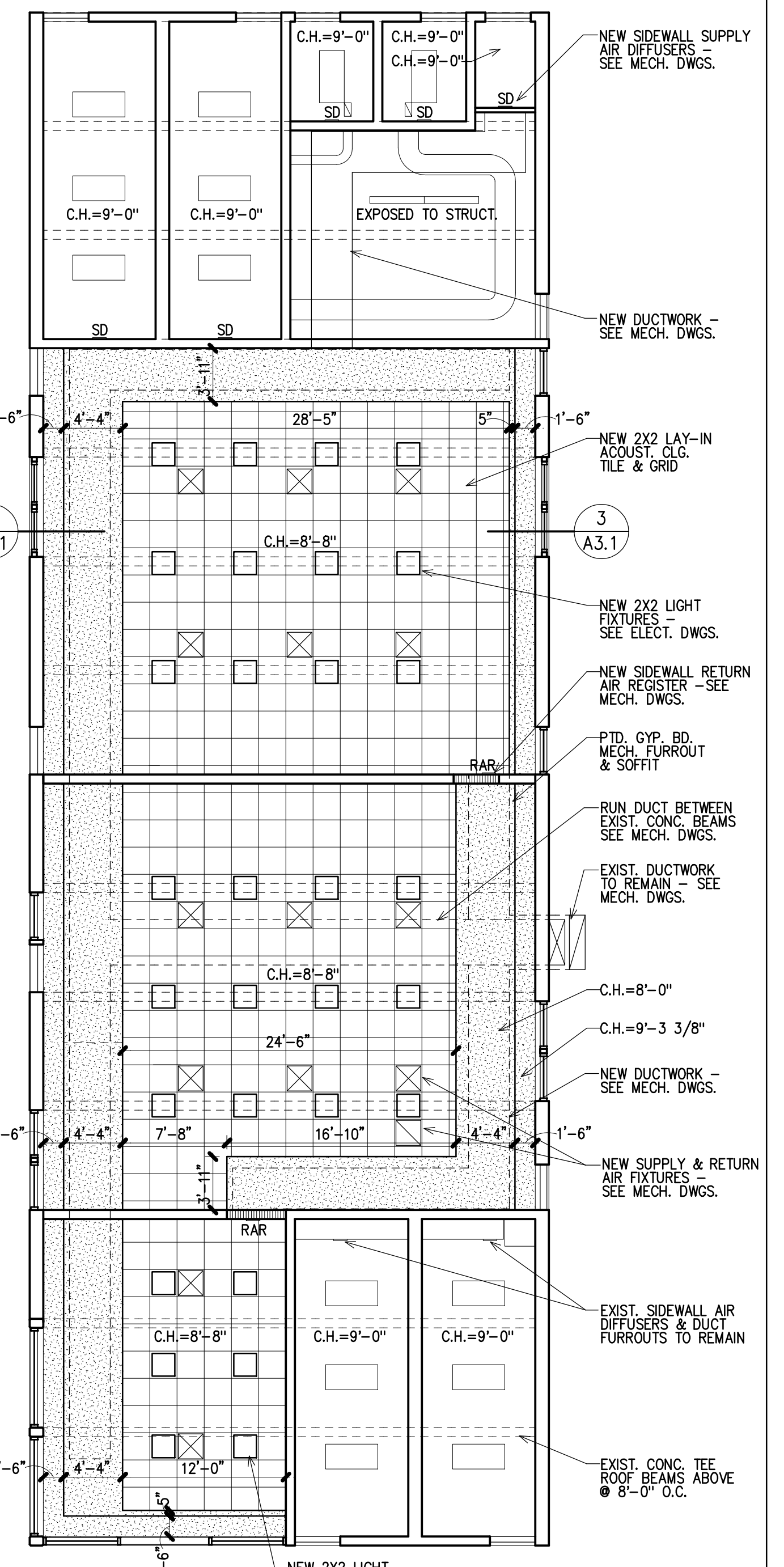
| | |
|------|--|
| | EXIST. DOORS & FRAMES TO REMAIN |
| | EXIST. WINDOWS TO REMAIN |
| | EXIST. WALLS TO REMAIN |
| | NEW 8" CMU WALLS - PAINT TO MATCH EXIST. |
| | FURNITURE N.I.C. |
| | NEW PLAS. LAM. CABINETS |
| | NEW WINDOW - SEE SHEET A4.5 |
| MB12 | 12'-0" MARKERBOARD |



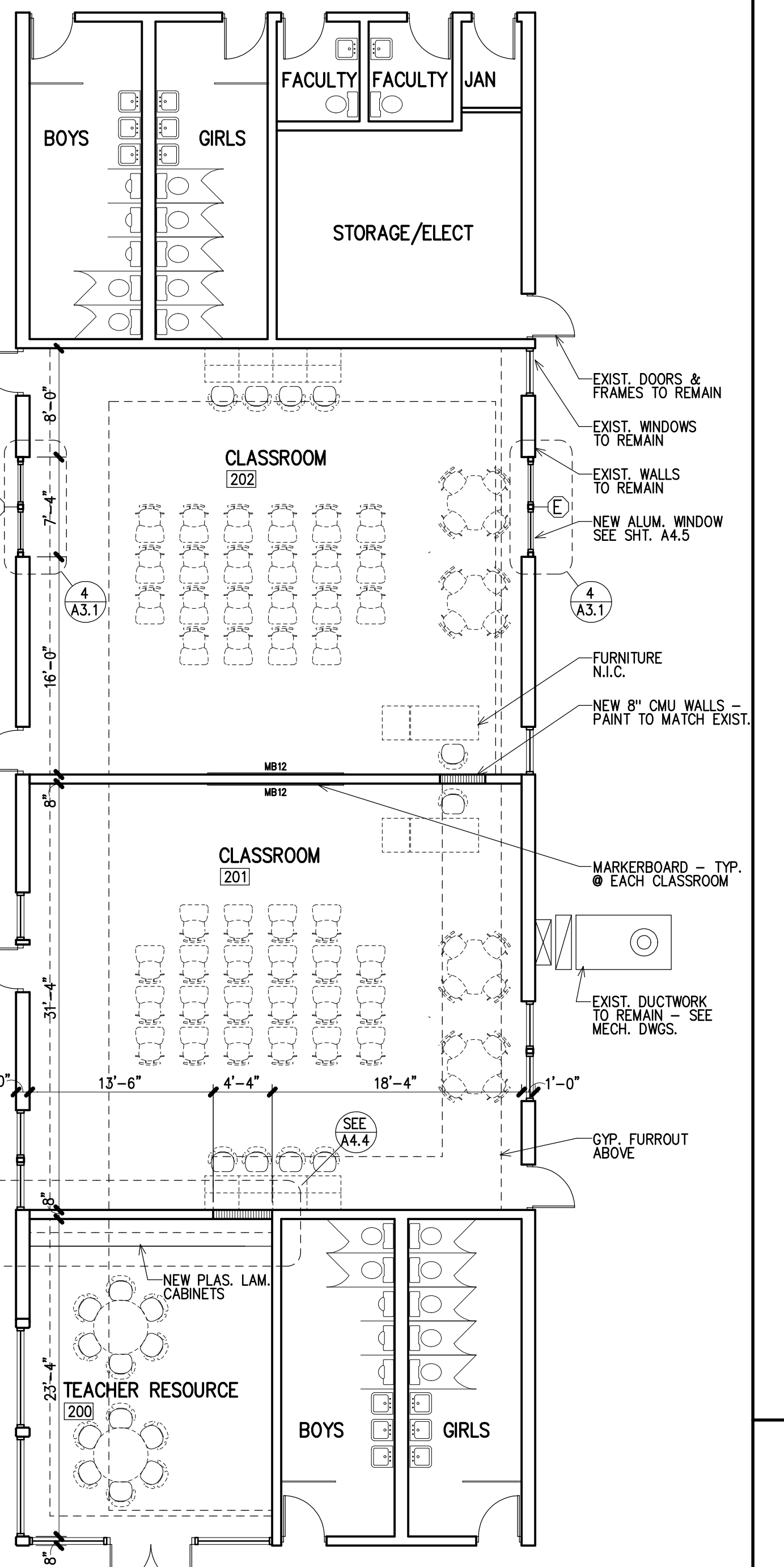
Existing Reflected Ceiling Plan
 BLDG. 2
 SHOWING DEMOLITION
 1/8"=1'-0"



Existing Floor Plan
 BLDG. 2
 SHOWING DEMOLITION
 1/8"=1'-0"



New Work Reflected Ceiling Plan
 BLDG. 2
 1/8"=1'-0"



New Work Floor Plan
 BLDG. 2
 1/8"=1'-0"

GENERAL NOTES:

- To the best of our knowledge, the structural plans and specifications comply with the applicable requirements of the Florida Building Code, 8th Edition (2023).
- The structural documents are to be used in conjunction with the architectural documents. Use these notes in conjunction with the specifications. If a conflict exists, the more stringent governs.
- Comply with requirements of all other applicable federal, state, and local codes, standards, regulations and laws.
- All referenced standards refer to the edition in force at the time these plans and specifications are issued for bidding.
- Review all contract documents, dimensions and site conditions and coordinate with field dimensions and project shop drawings prior to construction. Report any discrepancies in writing to the architect & engineer. Do not change size or dimensions of structural members without written instructions from the structural engineer of record.
- Any discrepancies, omissions, or variations noted on the drawings or in the specifications discovered during the bidding period shall be immediately communicated in writing to the architect & engineer.
- Protect existing facilities, structures and utility lines from all damage. Each contractor shall protect his work, adjacent property and the public. Each contractor is solely responsible for damage or injury due to his act or neglect.
- The contractor is solely responsible for job safety and construction procedures.
- Do not scale drawings; use dimensions.
- See architectural and mechanical drawings for size and location of openings in structure not shown on structural drawings.
- Details labeled "typical details" on the drawings apply to all situations that are the same or similar to those specifically detailed. Such details apply whether or not they are keyed in at each location. Questions regarding applicability of typical details shall be resolved by the architect & engineer.
- Revisions are identified by a revision number within a triangle. All revisions issued on a single date will be identified by the same revision number issued consequently.
- Current revisions are encircled by an irregular "cloud", as well as flagged with the current revision number. Clouds are removed from previously issued revisions.
- Field verify all dimensions before commencing with new construction
- Design loads and criteria:

| | |
|-----------------|-------------|
| Floor Live Load | 40 psf |
| Partition Load | 15 psf |
| Roof Live Load | 20 psf |
| Floor Dead Load | self weight |

| | |
|---------------------|-----------|
| Wind Criteria | ASCE 7-22 |
| Ultimate Wind Speed | 160 mph |
| Risk Category | II (2) |
| Importance Factor | 1.00 |
| Structure Type | Enclosed |
| Exposure Category | B |

SHOP DRAWING SUBMITTALS:

- The following requirements in no way reduce or limit any additional requirements of specifications.
- Review of submittals by the structural engineer is for general conformance with the design concept as presented by the contract documents. No detailed check of quantities or dimensions will be made. Only those shop drawings required by the contract documents to be submitted will be reviewed. All others will be returned without comment.
- In accordance with the specifications, submit a copy of the shop drawing submittal register to the structural engineer, showing dates of submittal for each specific structural section of the work, consistent with the following criteria:
 - Allow adequate time for transit and processing before fabrication. The structural engineer will review an average submittal within 10 working days of receipt by them.
 - Schedule and submit shop drawings for specific components, such as columns, footings, etc., in their entirety. Shop drawings for similar floors shall be submitted in the same package.
 - Submit shop drawings in a timely manner, consistent with the above requirements.
- All changes and additions made on resubmittals must be clearly flagged and noted. The purpose of the resubmittals must be clearly noted on the letter of transmittal. Architect / Engineer review will be limited to the items causing the resubmittal.
- Do not reproduce the contract documents for use as shop drawings.
- Shop drawings not meeting the above criteria or submitted after fabrication will not be reviewed and will be returned without comment.
- Responsibilities of detailers and fabricators:
 - General - submit shop drawings and any other special information necessary for proper fabrication, erection, and placement of structural fabrications. Include plans, elevations, and sections. Clearly show anchorages, connections, and accessory items. The detailer must interpret the contract documents and clearly convey this interpretation to the field in the form of placing or erection drawings.
 - Concrete reinforcing detailer - provide placing drawings for fabrication and placing of reinforcing steel. These drawings shall include, but are not limited to the following: bar lists, schedules, bending details, placing details, placing plans, and placing elevations.
 - Clearly show elevations of all foundation walls. Indicate control joints, expansion joints, lintels, concrete bond beams, and openings, details of all reinforcing with locations of splices, and hooks, pilasters.
 - Clearly show grade beam elevations and sections.
 - Indicate bar lengths, hooks, stirrup spacing, lap splices, offsets, and location of bars with respect to all supports.
 - Clearly show column elevations and sections. Indicate dowels, offsets, lap splices, and ties. Plan sections of all columns must clearly be shown.
 - Clearly show foundation reinforcing. Indicate bar lengths, location and splices of continuous bars, and bar supports.
 - Clearly show locations of all dowels on plan. Indicate footing step locations and provide details.
- For additional criteria applicable to shop drawings requiring engineering input by a specialty engineer, see section "Shop Drawings requiring engineering input by Specialty Engineer".

SHOP DRAWINGS REQUIRING ENGINEERING INPUT BY SPECIALTY ENGINEER:

- Specialty engineer:
 - Definition - a Florida registered professional engineer who specializes in and who undertakes the design of structural components or structural systems included in a specific submittal prepared for this project.
 - Shall be:
 - An employee or officer of a fabricator.
 - An employee or officer of an entity supplying components to a fabricator.
 - An independent consultant retained by the fabricator or his supplier.
- The following systems and components as a minimum require fabrication and erection drawings with input by a specialty engineer:
 - Pre-engineered galvanized metal trusses and roof components including all holddown fasteners for truss to wall connections.
- The specialty engineer or manufacturer shall design, provide, and install their components and the component connections to the primary structure per the wind criteria stated in General Note 15 or the current governing building codes, whichever is more stringent.
- Submittals shall clearly identify the specific project and applicable codes, list the design criteria, and show all details and plans necessary for proper fabrication and installation. Calculations and shop drawings shall identify specific product utilized. Generic products will not be accepted.
- Shop drawings and calculations must be prepared under the direct supervision and control of the specialty engineer.
- Shop drawings and calculations require the embossed or printed seal, date and signature of the specialty engineer. Computer printouts are an acceptable substitute for manual computations provided they are accompanied by sufficient descriptive information to permit their proper evaluation. Such descriptive information shall bear the embossed seal and signature of the specialty engineer as an indication that he has accepted responsibility for the results. The structural engineer will retain one signed and sealed set for record.
- Catalog information on standard products does not require the seal of a specialty engineer.
- Review by the structural engineer of record of submittals is limited to verifying the following:
 - That the specified structural submittals have been furnished.
 - That the structural submittals have been signed and sealed by the specialty engineer.
 - That the specialty engineer has understood the design intent and has used the specified structural criteria. (no detailed check of calculations will be made.)
 - That the configuration set forth in the structural submittals is consistent with the contract documents. (no detailed check of dimensions or quantities will be made.)
- A list shall be prepared and maintained by the contractor for all shop drawings requiring participation of a specialty engineer. The list shall contain project name, name of contractor, name of subcontractor, name of specialty engineer, drawing number, drawing title and the latest revision number and date. For partial submittals, the list shall contain all anticipated drawing numbers and titles required to complete the contract. The contractor is responsible for submitting the latest updated list of drawings with each submittal.
- Submittals not meeting the above criteria will not be reviewed and will be returned to contractor marked revise and resubmit. The contractor shall be responsible for any delays which may result.

SLABS ON GRADE:

- Prepare subgrade as per the recommendation outlined in the geotechnical report included in the specifications.
- Reinforce slabs on grade in accordance with plans, sections and details provided for this project.
- Use 10 mil. Polyethylene sheeting between soil and concrete slab, unless noted otherwise.
- Place crack control joints at 12 ft. Max. So as to limit concrete placement areas to 144 Sq. Ft. maximum in all floating slabs on grade. Do not exceed a 2-to-1 width to length ratio. Contractor shall submit a control joint layout for engineer's review prior to concrete placement.
- Slab finishes (unless otherwise directed by architectural plans & specifications):
 - Exterior walking surfaces - medium broom
 - Driving surfaces - medium broom
 - Interior surfaces - steel trowel

SAW CUT JOINTS (SCJ):

- Sawcut 1/8" wide 1" deep joints at no more than 12' o.c. in any direction. Saw cutting shall proceed as soon as the slab is finished and can support the saw cutting equipment without scarring the surface of the slab (green saw method).

REINFORCED CONCRETE:

- Use structural concrete and concreting practices conforming to ACI-316 and 301 and proportion concrete in accordance with ACI-318, Ch. 4 and meeting a minimum ultimate compressive strength in 28 days as follows:

| | |
|----------------|-----------|
| Footing | 3,000 psi |
| Grade beams | 3,000 psi |
| Walls | 4,000 psi |
| Elevated slabs | 4,000 psi |

Provide current (maximum 1 year old) statistical data for each concrete mix design submitted.

- Where concentration of reinforcing steel hinders proper consolidation of concrete use concrete containing a super-plasticizing (NRWR) admixture, ASTM C494 type F. Slump after addition of superplasticizer shall be 7" +/- 1".
- If concrete is pumped, slump may be increased to 6" at the truck, provided the slump specified in note 2 is maintained at the discharge end. Use a minimum 4-inch pump, unless pre-approved by architect. Take concrete samples for slump at truck and at discharge end. Take concrete samples for cylinder testing at discharge end.
- Use ASTM A-615 Grade 60 for all reinforcing steel, conform to ACI-301, ACI-315, ACI-318, and CRSI "Manual of Standard Practice". All reinforcing shall be accurately placed, rigidly supported, and firmly tied in place with bar supports and spacers in accordance with the above requirements. Provide Class 'B' lap splice for continuous bars, unless noted otherwise. lap bottom steel over supports and top steel at midspan unless otherwise specified. Hook discontinuous ends of all top bars and all bars in walls unless noted otherwise. use 1" cover over reinforcing except as follows:

| | <u>Bottom</u> | <u>Top</u> | <u>Sides</u> |
|------------------|---------------|------------|--------------|
| Footing/pile cap | 3" | 2" | 3" |
| Walls | | centered | |
| Elevated slabs | 1 1/2" | 1" | 2" |

- Use plain cold-drawn electrically welded steel wire fabric conforming to ASTM A-185. Supply in flat sheets only. Lap splices shall be measured between the outermost cross wires of each fabric sheet and shall not be less than twice the spacing of the cross wires plus 2".
- Sleeve all pipes through slabs individually, unless approved by the engineer. Where pipes or ducts penetrate the slab, a maximum of two slab bars may be cut provided they are #5 bars or smaller, provided spliced bars are placed alongside the opening in each direction with a 36 bar diameter splice at the end of each cut bar. Splice bars shall have the equivalent cross-sectional area as the cut bars. For openings larger than 6" not shown on the structural drawings submit shop drawings showing size and location for the engineer's review. Provide (1) #5 at 6'-0" each way diagonally at corners of all openings larger than 12", unless otherwise noted.

SHALLOW FOUNDATIONS:

- Foundation design is based on an allowable soil bearing capacity of 1,500 psf for footings as recommended by the geotechnical engineer.
- Soil compaction shall be field controlled by a soils engineer or testing laboratory. A report bearing the signature and embossed seal of the registered professional engineer who controlled and tested the soil compaction shall be submitted to the architect and engineer of record as an indication that the requirements of the contract documents have been followed.
- Soil compaction, fill, and its replacement shall be field controlled by the testing agency or geotechnical engineer of record. The testing agency shall randomly select all test locations.
- The contractor is responsible for the disposal of all accumulated water from excavations and dewatering operations in such a way as not to cause inconvenience to the work and damage to the structural elements.
- The contractor is solely responsible for all excavation procedures including lagging, shoring, and protection of adjacent property, structures, streets and utilities in accordance with the requirements of the local building department.

FORMWORK, SHORING & RESHORING:

- Provide, as a package, shoring and reshoring drawings prepared by or under the direct supervision of a specialty engineer.
- The shoring and reshoring drawings shall contain, as a minimum, the following:
 - Location, size, and type of all shoring.
 - Location, size, and type of all reshoring.
 - Location, size, and type of all mud sills, blocking, temporary lateral bracing and other accessories necessary to safely support and brace the structure during construction.
 - The sequence of installation load relief and removal of all shoring and reshoring.
- Submit one record copy of the shoring and reshoring drawings, signed, sealed and dated by the specialty engineer, to the architect, engineer, and inspector.
- Design and erect forms and shores in accordance with ACI 347 and as specified herein. Design forms and shores for horizontal concrete members for not less than dead load plus 50 psf construction load, equipment load, and for the cumulative loads of supported floor. Design wood shores with a safety factor of 3 and metal shores with a safety factor of 2.
- The maximum superimposed construction load applied to floors supporting shores or reshores shall not exceed 75% of the specified load.
- Removal of formwork is the sole responsibility of the contractor. Remove forms in such a manner to insure job safety and to prevent damage to and creep deflection of the structure except for formwork not supporting concrete; such as beams sides, walls, and columns, forms may be removed no sooner than 72 hours after completing concrete pour provided concrete strength is 70% of the specified 28 day strength and not less than 3,000 psi. Reshore each day as it is stripped, as soon as forms are removed.
- Do not remove shoring until concrete has reached 7-day strength, but not less than 3000 psi. As a minimum, shoring and reshoring shall remain in place as follows: (time measured from completion of concrete pour).

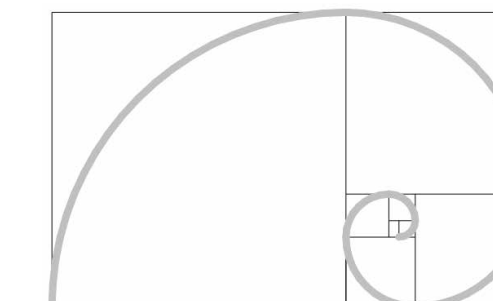
| | <u>Shores</u> | <u>reshores</u> |
|-----------------------------|---------------|-----------------|
| slabs | 72 hours | 7 days |
| beams | 7 days | 14 days |
| (spans less than 30'-0") | | |
| beams | 7 days | 14 days |
| (spans greater than 30'-0") | | |

- The shoring and reshoring is to be inspected by the specialty engineer or his authorized representative prior to each concrete pour, he shall submit a written inspection report to the project architect, building engineer, inspecting agency and general contractor stating that the work is in general compliance with the shoring and reshoring drawings.
- The shoring and reshoring report shall contain, as a minimum, the following:
 - Name and location of project, name of specialty engineer and field representative,
 - Permit number, date, time of day, working conditions including weather and temperature.
 - Items requiring corrections.
 - Accepted deviations from shoring and reshoring drawings.
 - Areas accepted and released for concrete pour.

Quina Grundhoefer Architects



400 West Romana Street Pensacola, FL 32502
850 433-5575 Fax 850 433-5366



RAC ENGINEERING, INC.

129 HIGHPOINT DRIVE GULF BREEZE, FLORIDA 32561
850-712-8200 racstructures@gmail.com

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Project
Admin-Classroom Building

Fort Walton Beach, Florida
Date: 04/24/26 Sheet No.

Project No. 2025

S0.1

STRUCTURAL STEEL:

- All steel work (including fabrication and erection) shall conform to the AISC manual of steel construction 9th edition (or later) and project specifications. Use the following:
 - Rolled shapes, plates, and bars: ASTM A-992 50 ksi
 - Cold-formed steel tubing: ASTM A-500, Grade B.
 - Hot-formed steel tubing: ASTM A-501.
 - Steel pipe: ASTM A-3, Type E or S, Grade B.
- Use structural steel that is fully weldable within grades and from any grade to any other grade. Weld all shop connections, unless noted otherwise.
- All shop and field welding shall conform to the structural welding code AWS D1.1, latest edition, published by the American Welding Society (AWS). Use electrodes conforming to AWS D1.1, E70 series, unless noted otherwise. Show all shop welds on the fabrication drawings and all field welds on the erection drawings.
- All shop and field welders, welding operators, and tackers shall be certified according to AWS procedures for the welding process and welding position used. Submit certificates to architect/engineer for their records before beginning welding.
- All joint welding procedures to be used shall be prepared by the fabricator or contractor as written procedure specifications and submitted to the architect/engineer for their record. All joint welding procedures shall be qualified prior to use according to AWS procedures. Submit properly documented evidence of qualification tests to architect/engineer for their records.
- A325 bolts:
 - A325 bolts shall conform to ASTM A-325 Type 1, high strength bolts for structural steel joints. Do not use type 2 bolts.
 - Provide hardened washers conforming to ASTM F-436. Place hardened washers under part being turned.
 - All bolts shall be new and domestically manufactured. Do not reuse bolts. Bolts and nuts shall be wax dipped by the bolt supplier or lubricated with Johnson's Stick Wax 140.
 - Bearing-type bolts (A-325N) shall be tightened to the snug tight conditions. The snug tight condition is defined as the tightness that exists when all plies in a joint are in firm contact. This may be attained by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench.
 - Slip critical type bolts (A-325SC) shall be tightened to the minimum fastener tension indicated in specification for structural joints using ASTM A-325 or ASTM A-490 bolts, Section 5, Table 3. Tension shall be determined solely by use of direct tension indicators, complying with ASTM F-959-85, or "LOHR" tension control bolts. Hardened washers shall be used for friction-type bolts. Provide only domestically manufactured bolts and DTI's friction-type bolted connections may be installed.
- Connections not completely detailed on structural drawings shall be designed and detailed by fabricator's specialty engineer according to AISC specifications and the specified loads and in compliance with applicable paragraphs of this section.
- Use A-307 bolts for erection bolts and anchor bolts or when specifically called for on the drawings.
- Cut, drill, or punch holes perpendicular to metal surfaces. Do not flame cut holes or enlarge holes by burning.
- Splicing of structural steel members in the field or in the shop is prohibited except where included on the drawings.
- All exterior structural plates angles and exterior beams shall be hot-dipped galvanized in accordance with ASTM A-153.
- Refer to architectural plans for fireproofing of structural steel members, refer to specifications for painting of exposed structural steel.
- Submit structural steel shop drawings to architect/engineer for review before fabrication of structural steel.
- Provide temporary bracing as necessary to insure a stable structure during construction.
- Do not reproduce the structural drawings for use as shop drawings.
- No cutting of sections, flanges, webs, or angles shall be allowed without written approval from the engineer of record.
- All HSS column sections shall have 1/4" closure cap plate unless noted otherwise.

WOOD FRAMING:

- Materials:
 - All load bearing framing shall be no.2 southern yellow pine or better.
 - Framing fasteners shall be hot dipped galvanized or stainless steel.
 - All exterior sheathing shall be CDX plywood.
 - Hurricane strapping shall be Simpson Strong-Tie products.
- Execution:
 - All window and door headers not specifically called out on the plans shall be triple 2x12 with appropriate plywood spacers plates to equal width of the framed supporting wall. All headers shall have a minimum of (2) studs and a header jack at each supported end.
 - Frame window and door openings in accordance with the architectural plans. See plans for dimensions.
 - All framing in contact with masonry or concrete shall be pressure treated.

EXPANSION ANCHORS:

- Use wedge-type expansion anchors manufactured from cold-rolled (70,000 psi yield) steel and conforming to one of the following minimum standards:
 - Federal Specification 003-325C, Type I or II, Class 3
 - Federal Specification FF-5-325 Group II, Type 4, Class I
 - ICBO approval.
- Install and maintain a minimum embedment in accordance with manufacturer's specification, and expansion anchor manufacturer's institute, or as specified on drawing, whichever is greater, but with an embedment of not less than (5) bolt-diameters.
- Provide min. Anchor spacing of (10) hole diameters. Provide minimum edge distance of (5) hole-diameters.

ADHESIVE ANCHORING SYSTEMS:

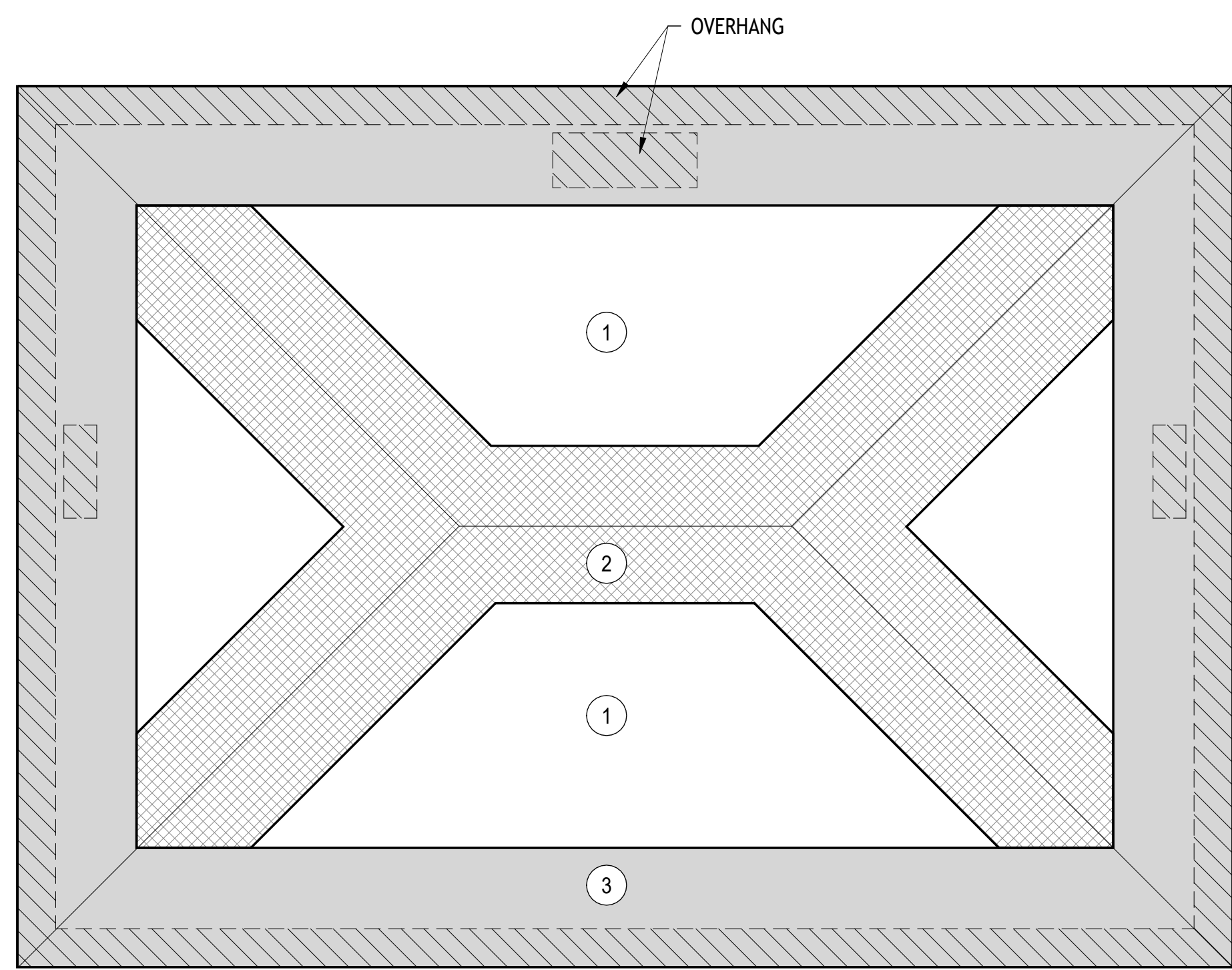
- Use an epoxy or polyester resin adhesive such as Hilti Hit HY 150, Hilti HVA, Sika Sikadur 32 hi-mod (for horizontal and vertical surfaces), Sikadur 31 Hi-Mod gel (for overhead), Kelken-Gold Kelibond or accepted alternate.
- Follow manufacturer's specifications for use and installation.
- Install and maintain a minimum embedment in accordance with manufacturer's specifications, or as specified on drawings.
- Diameter of hole shall be as recommended by manufacturer for the particular product specified in the drawings.
- Unless noted otherwise, anchor spacing and anchor edge distance shall be according to the manufacturer's most current publication in order to develop maximum working loads.
- Do not exceed manufacturer's maximum recommended tightening torque.
- All anchors shall be installed as per manufacturer's recommendations and under manufacturer's supervision to develop the most current published working loads.
- All epoxied anchoring shall be tested after installation at contractor's expense. A minimum of 10% of each day's applications but no less than (2) shall be tested by applying a tensing load of 3000 pounds to the embedded anchor. If a test application fails, all applications for that day shall be tested. Testing procedures and results shall be submitted and approved by engineer.

POWDER ACTUATED FASTENERS:

- Use powder actuated fastening systems such as Hilti, Red Head, Ramset, or an accepted alternate having ICBO, or SBCGI approval. Install in accordance with manufacturer's specifications, but not more than 1" in concrete, unless noted otherwise.
- Provide a minimum anchor spacing and edge distance as recommended by manufacturer.
- Allowable working loads shall not exceed manufacturer's recommendations, but not more than accepted by approving agency. No increase for wind or seismic loads is permitted.
- Provide a minimum of two fasteners per connection.

CONCRETE MASONRY:

- All masonry work is to conform to ACI-530 and 530.1.
- Construct reinforced and unreinforced masonry as noted on the plans and details in accordance with the requirements of specification section 04 22 00 "Concrete Unit Masonry".
- Use concrete masonry units conforming to ASTM C-90. Provide F' m and C-90 compliance by Unit Test Method. Use only masonry units that are a minimum of 50% solid.
- Use Type "S" mortar in accordance with ASTM C-270. Use 3/8" full-bedded joints for all masonry units. Remove mortar protruding into cell cavities that are to be reinforced and grouted. Allow a minimum of 24 hours for mortar to cure before placing grout.
- Use all grout conforming to ASTM C-476 with a minimum Compressive strength of 3000 psi in 28 days, tested in accordance with ASTM C-1019. Aggregate to conform to ASTM C404 for coarse grout and slump of 8" to 11". Test samples for compressive strength. Test every 30 yards or each day's grouting.
- For reinforced masonry use standard (9 gage cross and side rods) ladder type horizontal joint reinforcing in every other course unless noted otherwise. Use prefabricated corners and tees at wall intersections. Overlap discontinuous ends a minimum of 12 ". Horizontal reinforcing shall conform to ASTM A-82.
- For reinforced masonry not otherwise noted use grouted cells with #5 at 32" o.c. Provide two cells each side of wall openings, wall intersections, and at the ends of walls. Grout solid all cells containing reinforcing. Use bar spacers in every 6th course and provide cleanout openings or each grouted cell. See typical details.
- Use (1) #5 top and bottom corner bars with 2' legs each way in all bond beams, corners, and intersections. Place at exterior face unless noted otherwise.
- Use ASTM A-615 grade 60 reinforcing steel.
- In high-lift grouting use a maximum lift of 4'-8" with minimum half hour to maximum one hour between lifts. Vibrate each lift and reconsolidate previous lift after placing next lift.
- Reinforced masonry wall construction shall be inspected by an engineer or architect in accordance with ACI 530-88/ASCE 5-88.
- Where anchor bolts are set in masonry wall, fill block cells with grout for bolted course, one course above (where practicable) and two courses below anchor elevations.
- Use pressure-treated wood for all wood in contact with masonry.
- Provide lintels or headers over all masonry openings not flush with structural frame. Lintels or headers to bear minimum 8 inches each side of opening. See typical details.



2 COMPONENTS AND CLADDING ZONES
S0.2 1" = 10'-0"

RAC Engineering
129 Highpoint Drive
Gulf Breeze, FL 32561
(850) 934-0980

JOB TITLE St Mary's
JOB NO. 25-089
CALCULATED BY JRK
CHECKED BY RAC

SHEET NO.
DATE 2/9/26
DATE 2/9/26

Wind Loads - MWFRS h560 (Low-rise Buildings) except for open buildings

Base pressure (qh) = 45.9 psf
(Kd qh) = 39.0 psf
Gcpi = +/-0.18

Kz = Kh = 0.700

Edge Strip (a) = 6.3 ft
End Zone (2a) = 12.5 ft
Zone 2 length = 31.3 ft

Wind Pressure Coefficients

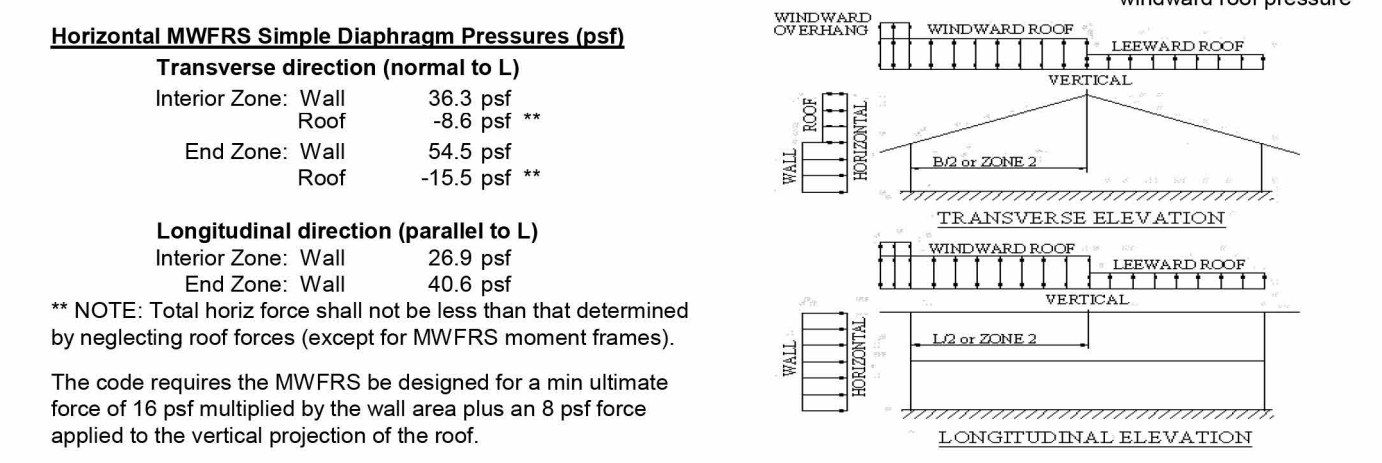
| Surface | CASE A | | | CASE B | | |
|---------|--------|--------|--------|--------|--------|--------|
| | Gcpl | w-Gcpl | w+Gcpl | Gcpl | w-Gcpl | w+Gcpl |
| 2 | -0.69 | -0.51 | -0.87 | -0.69 | -0.51 | -0.87 |
| 3 | -0.47 | -0.29 | -0.65 | -0.37 | -0.19 | -0.55 |
| 4 | -0.42 | -0.24 | -0.60 | -0.45 | -0.27 | -0.63 |
| 5 | | | | 0.40 | 0.58 | 0.22 |
| 6 | | | | -0.29 | -0.11 | -0.47 |
| 1E | 0.78 | 0.96 | 0.60 | -0.48 | -0.30 | -0.66 |
| 2E | -1.07 | -0.89 | -1.25 | -1.07 | -0.89 | -1.25 |
| 3E | -0.67 | -0.49 | -0.65 | -0.53 | -0.35 | -0.71 |
| 4E | -0.62 | -0.44 | -0.80 | -0.48 | -0.30 | -0.66 |
| 5E | | | | 0.81 | 0.79 | 0.43 |
| 6E | | | | -0.43 | -0.25 | -0.61 |

Ultimate Wind Surface Pressures (psf)

| Surface | Windward | Leeward | Roof | Interior | Exterior |
|---------|----------|---------|------|----------|----------|
| 1 | 27.2 | 13.1 | | | -10.5 |
| 2 | -19.9 | -33.9 | | | -19.9 |
| 3 | -11.3 | -25.3 | | | -7.4 |
| 4 | -9.2 | -23.2 | | | -10.5 |
| 5 | | | 22.6 | 8.6 | |
| 6 | | | -4.3 | -18.3 | |
| 1E | 37.4 | 23.4 | | | -11.7 |
| 2E | -34.7 | -48.7 | | | -34.7 |
| 3E | -19.2 | -33.3 | | | -13.6 |
| 4E | -17.1 | -31.1 | | | -11.7 |
| 5E | | | 30.8 | 16.8 | |
| 6E | | | -9.7 | -23.8 | |

Parapet
Windward parapet = 0.0 psf (Gcpi = +1.5)
Leeward parapet = 0.0 psf (Gcpi = -1.0)

Windward roof overhangs = 27.3 psf (upward) add to windward roof pressure



RAC Engineering
129 Highpoint Drive
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SHEET NO.
DATE 2/9/26
DATE 2/9/26

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Component and Cladding Ultimate Wind Pressures

Roof

| Area | Surface Pressure (psf) | | | |
|-------------------------|------------------------|--------|--------|--------|
| | 10 sf | 100 sf | 200 sf | 500 sf |
| Negative Zone 1 | -64.6 | -39.5 | -31.9 | -31.9 |
| Negative Zone 2 | -84.1 | -56.5 | -48.3 | -48.3 |
| Negative Zone 3 | -90.6 | -60.6 | -51.5 | -51.5 |
| Positive All Zones | 28.7 | 16.0 | 16.0 | 16.0 |
| Overhang Zone 3 @zone 4 | -120.6 | -84.8 | -74.0 | -71.7 |
| Overhang Zone 3 @zone 5 | -130.4 | -88.8 | -76.3 | -71.7 |

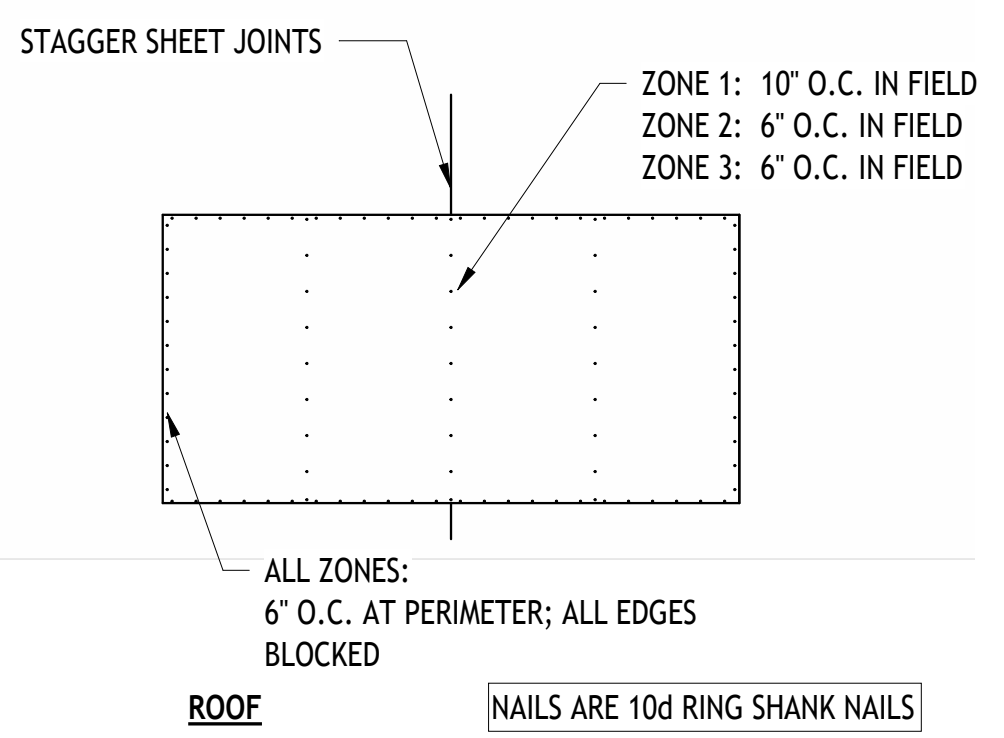
Overhang soffit pressure equals adj wall pressure (which includes internal pressure of 5.9 psf)

Parapet

| Area | Solid Parapet Pressure (psf) | | | |
|------------------------|------------------------------|-------|--------|--------|
| | 10 sf | 20 sf | 100 sf | 200 sf |
| CASE A: Zone 3 | 0.0 | 0.0 | 0.0 | 0.0 |
| CASE B: Interior zone: | 0.0 | 0.0 | 0.0 | 0.0 |
| Corner zone: | 0.0 | 0.0 | 0.0 | 0.0 |

Wall

| Area | Surface Pressure (psf) | | | |
|---------------------|------------------------|--------|--------|--------|
| | 10 sf | 100 sf | 200 sf | 500 sf |
| Negative Zone 4 | -41.7 | -36.0 | -34.2 | -31.9 |
| Negative Zone 5 | -51.5 | -40.0 | -36.5 | -31.9 |
| Positive Zone 4 & 5 | 38.5 | 32.7 | 31.0 | 28.7 |



1 NAIL ZONE PATTERNS
S0.2 3/8" = 1'-0"

Quina Grundhoefer Architects

400 West Romana Street Pensacola, FL 32502
850 433-5575 Fax 850 433-5366

RAC ENGINEERING, INC.
129 HIGHPOINT DRIVE GULF BREEZE, FLORIDA 32561
850-934-0980 rac.sturware@gmail.com

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Project
Admin-Classroom Building

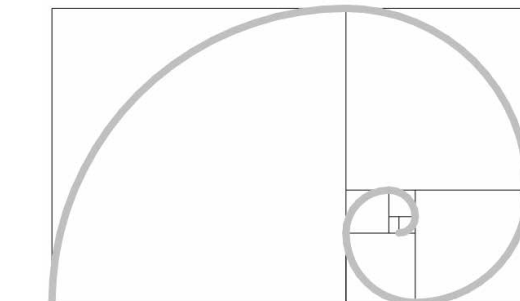
Fort Walton Beach, Florida
Date: 04/24/26 Sheet No.
Project No. 2025 **S0.2**

KEYNOTES

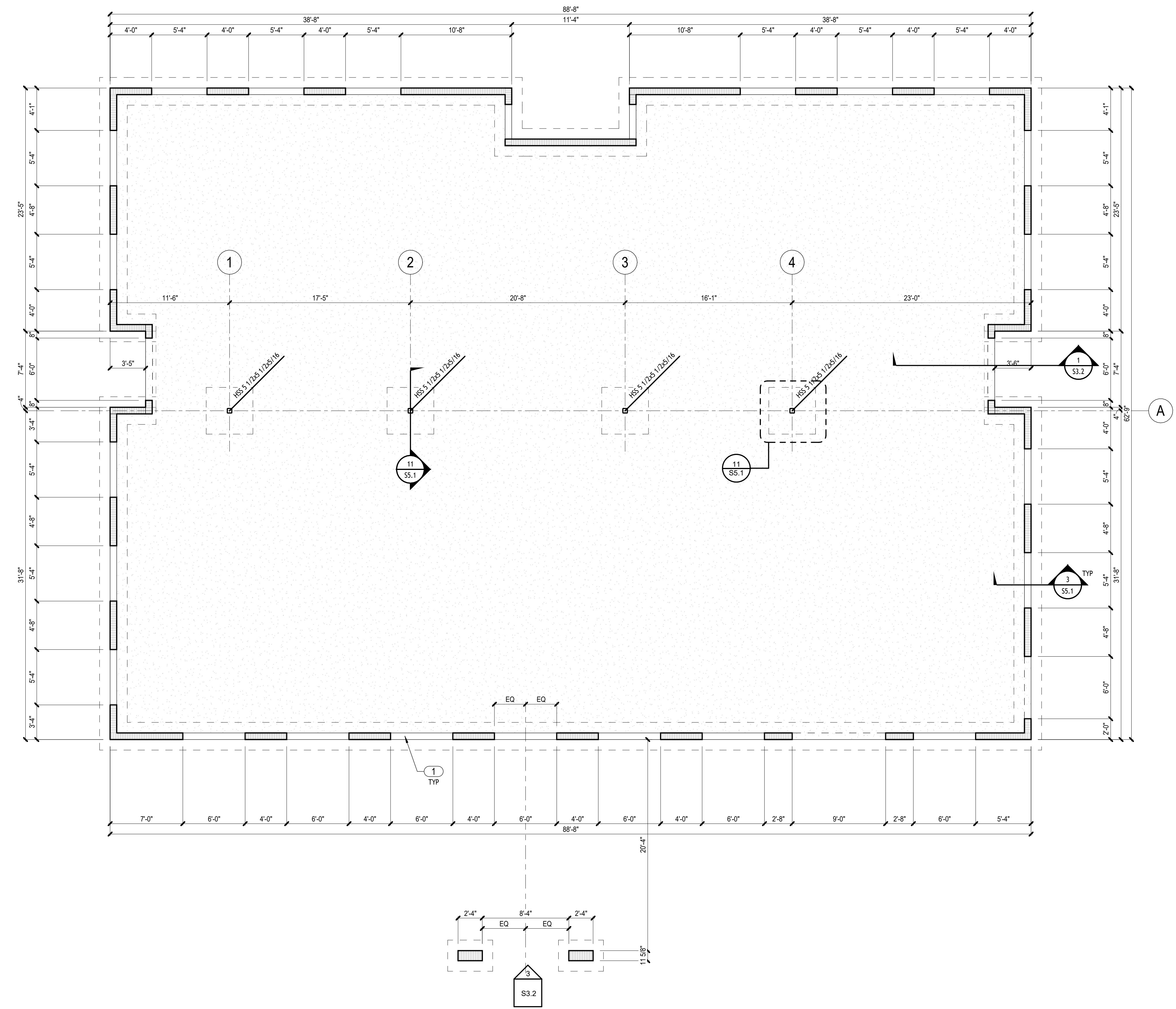
1 COORDINATE OPENINGS WITH ARCHITECTURAL; SEE 6/55.1 FOR MASONRY LINTEL AND HEADER REINFORCEMENT

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400 West Romana Street Pensacola, FL 32502
850 433-5575 Fax 850 433-5366



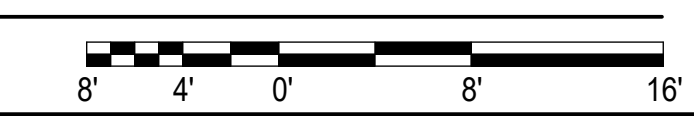
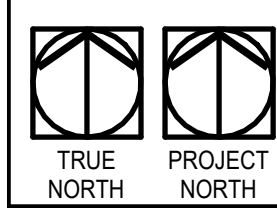
RAC ENGINEERING, INC.
129 HIGHPOINT DRIVE GULF BREEZE, FLORIDA 32561
850-712-8200 rac_structures@gmail.com



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Project
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Date: 04/24/26 Sheet No.
Project No. 2025 **S1.1**

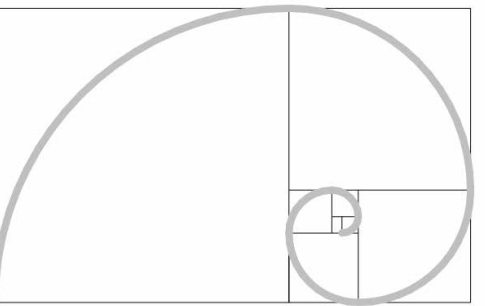


KEYNOTES

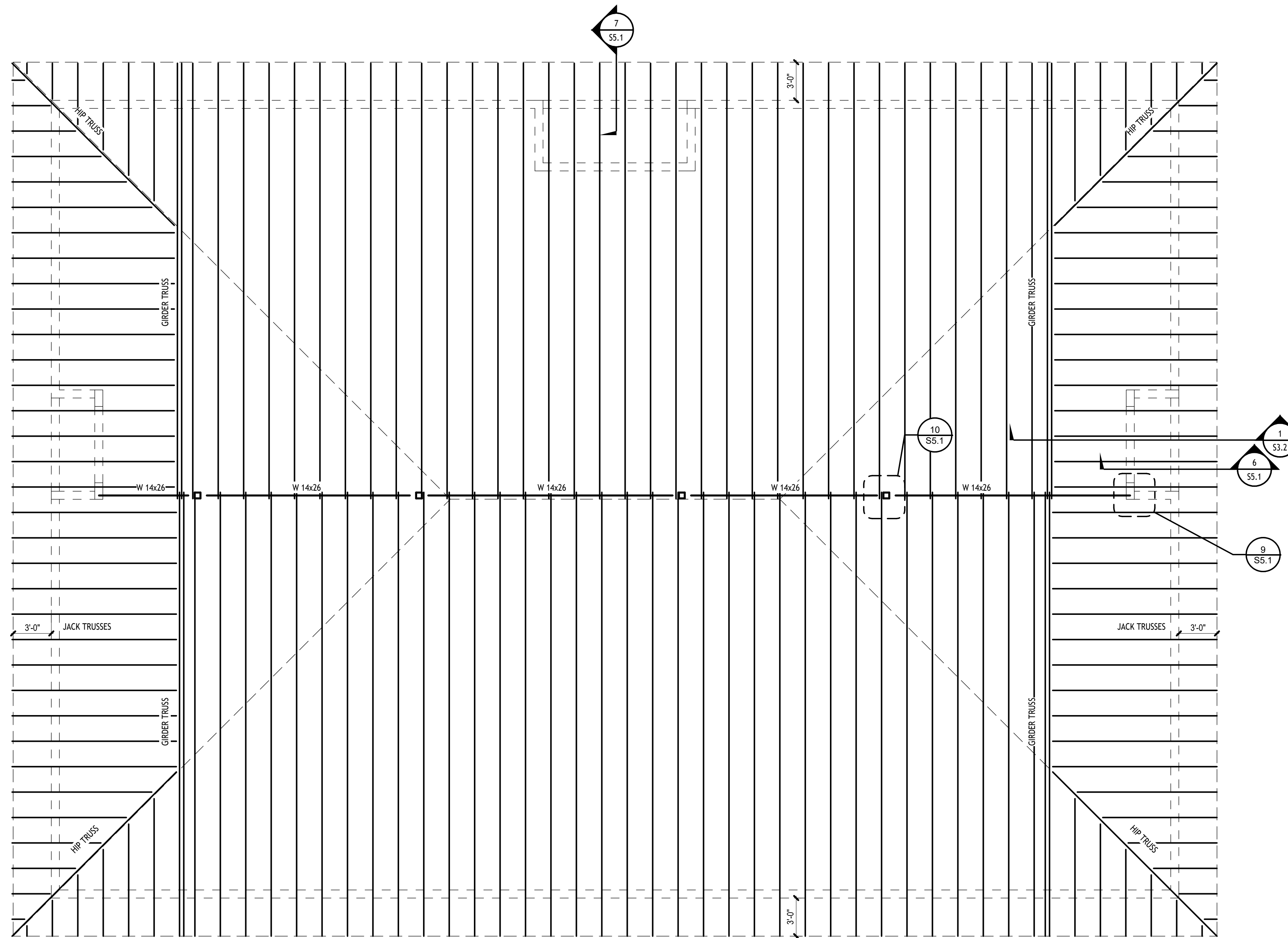
Quina Grundhoefer Architects



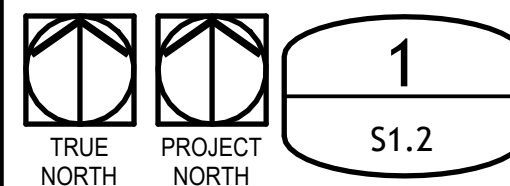
400 West Romana Street Pensacola, FL 32502
850 433-5575 Fax 850 433-5366



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129 HIGHPOINT DRIVE GULF BREEZE, FLORIDA 32561
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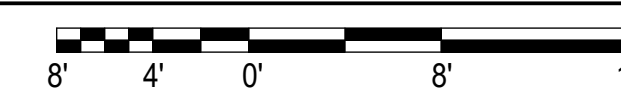
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1 ROOF FRAMING PLAN

S1.2

3/16" = 1'-0"



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Date: 04/24/26 Sheet No.

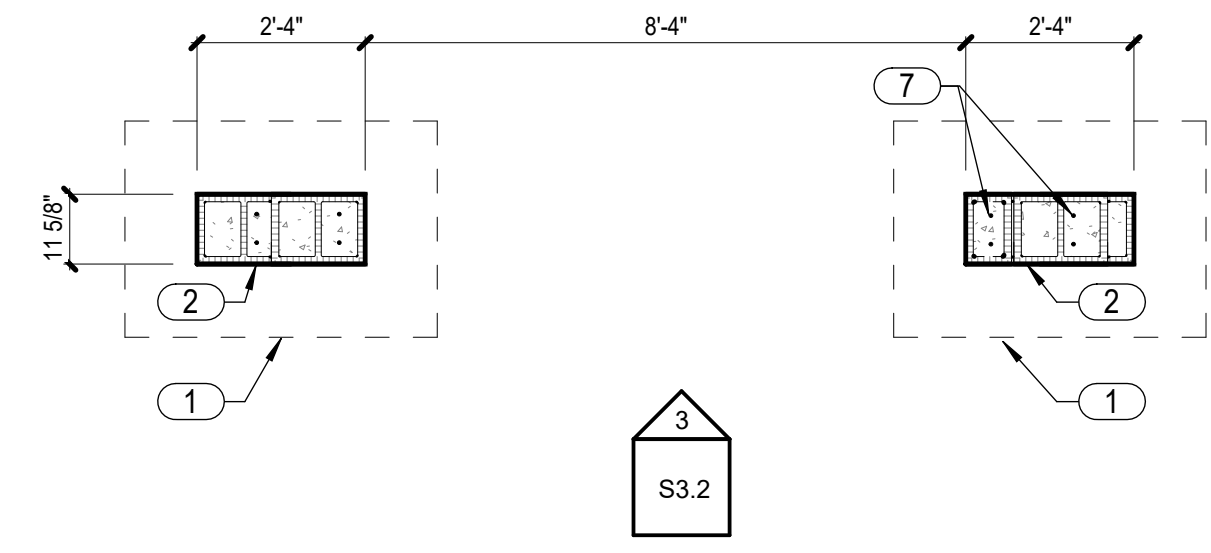
Project No. 2025 **S1.2**

KEYNOTES

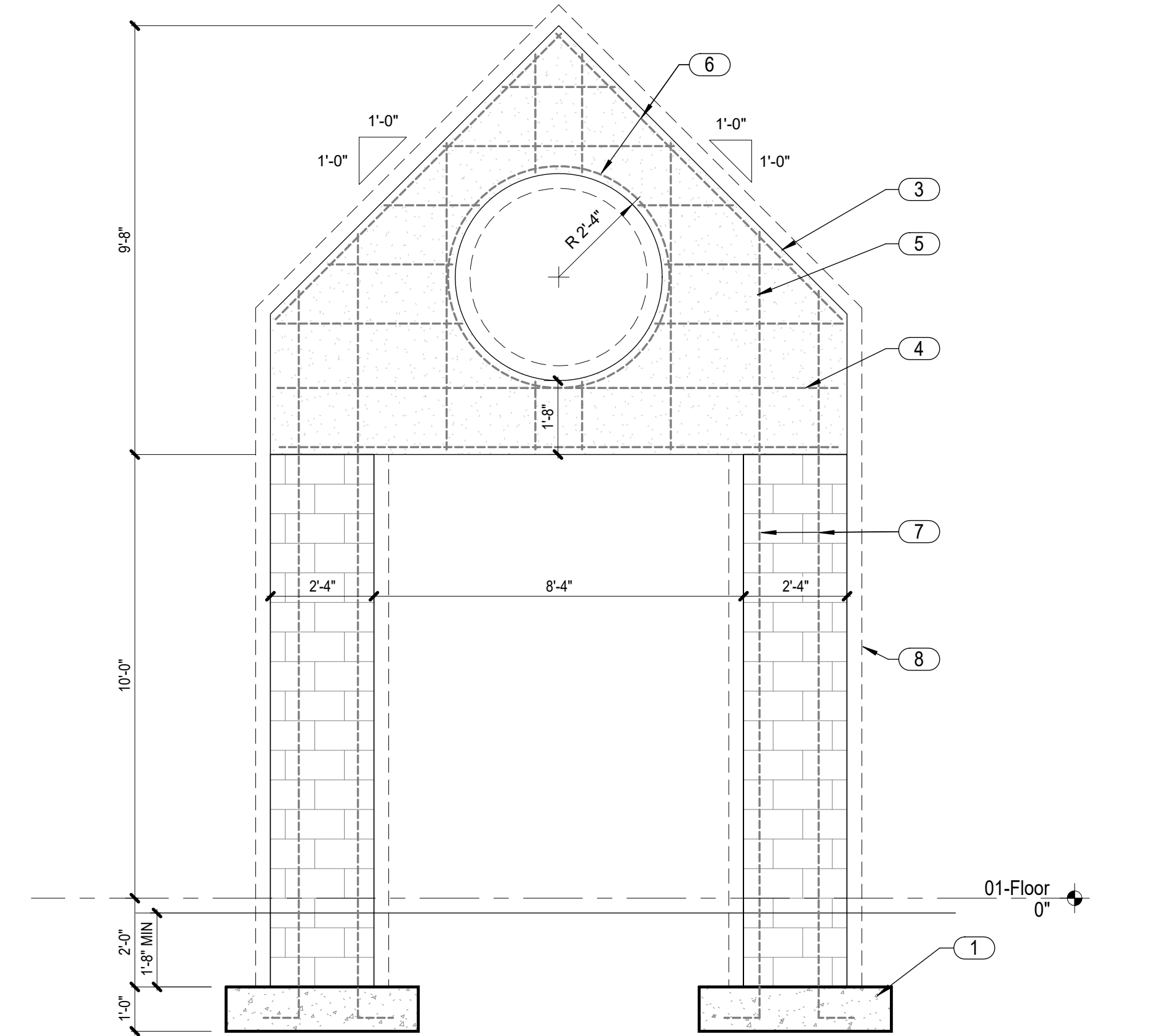
- 1 3'-0" x 4'-4" x 1'-0" FOOTING WITH #5's @ 12" O.C. EACH WAY, TOP & BOTTOM
- 2 12" NOM. CONCRETE MASONRY CONSTRUCTION
- 3 CAST-IN-PLACE CONCRETE; 4,000 psi @ 28 DAYS
- 4 #5's @ 16" O.C. VERTICALLY, EACH FACE
- 5 #5's @ 24" O.C. HORIZONTALLY, EACH FACE
- 6 (2) #5's ALONG SLOPE AND PERIMETER OF OPENING
- 7 (2) #5's IN CMU TO EXTEND THROUGH TO UNDERSIDE OF SLOPE
- 8 MASONRY VENEER; SEE ARCHITECTURAL
- 9 5/8" PLYWOOD SHEATHING
- 10 PRE-ENGINEERED GALVANIZED METAL ROOF TRUSSES
- 11 GIRDER TRUSS
- 12 CONCRETE WALK; SEE CIVIL
- 13 MASONRY VENEER; SEE ARCHITECTURAL
- 14 8" (NOM) CONCRETE MASONRY WALL; SEE

Quina Grundhoefer Architects
 ■ ■ ■
 400 West Romana Street Pensacola, FL 32502
 850 433-5575 Fax 850 433-5366

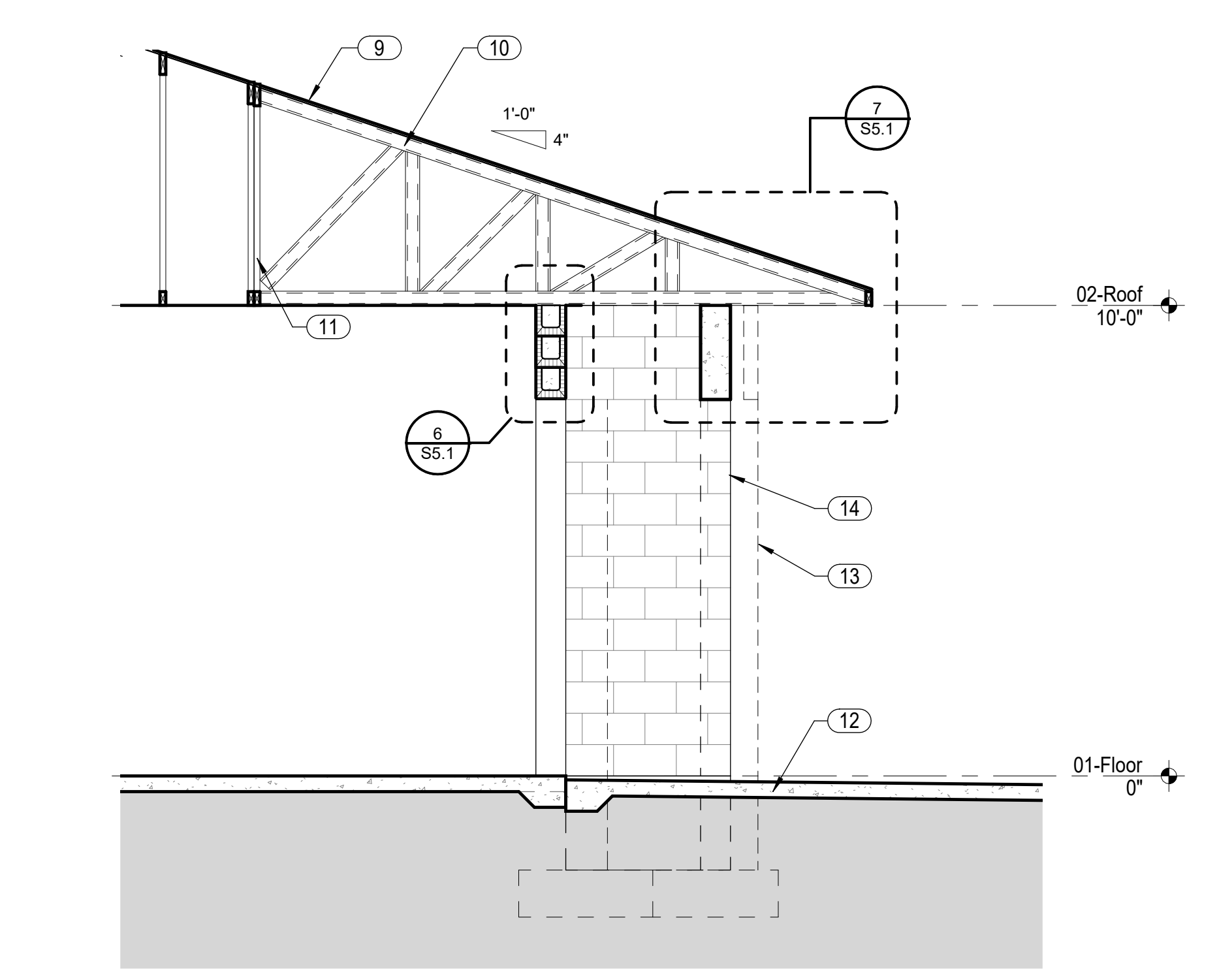
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 129 HIGHPOINT DRIVE GULF BREEZE, FLORIDA 32561
 850-712-8290 rac_structures@gmail.com



2 MONUMENT WALL - FOUNDATION PLAN
 S3.2 3/8" = 1'-0" 2' 1' 0' 2' 4"



3 MONUMENT WALL - ELEVATION
 S3.2 3/8" = 1'-0" 2' 1' 0' 2' 4"



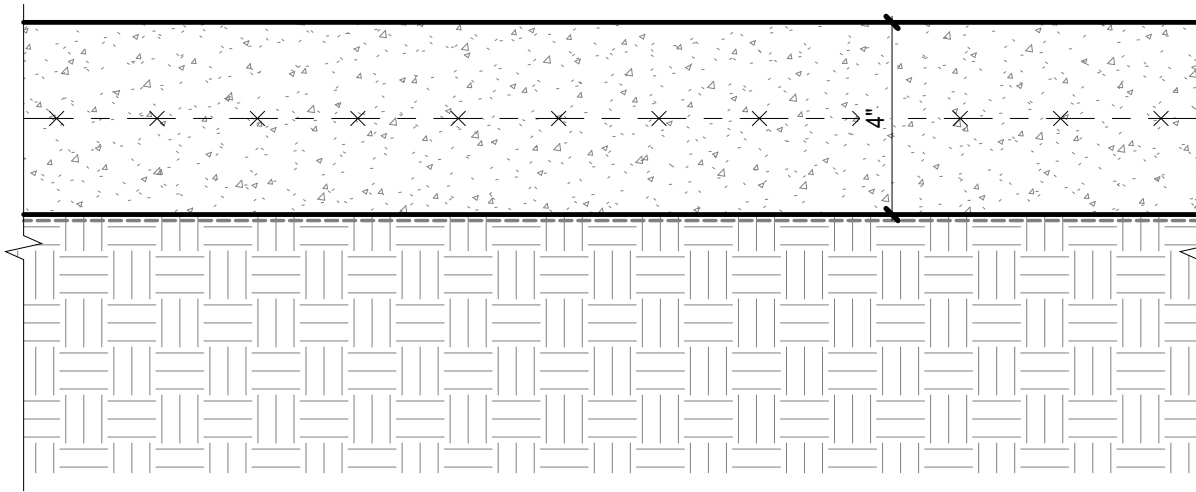
1 WALL SECTION AT PORCH
 S3.2 3/8" = 1'-0" 2' 1' 0' 2' 4"

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 Project No. 2025 **S3.2**

SLAB ON GRADE ASSEMBLY

- ASSEMBLY**
- 4" SLAB ON GRADE, 3,000psi CONCRETE @ 28 days
 - 6" x 6" - W2.9 x W2.9 WELDED WIRE MESH (SHEETS ONLY)
 - MEMBRANE VAPOR BARRIER; SEE ARCHITECTURAL
 - COMPACTED SOIL TO MIN 98 PERCENT OF MODIFIED PROCTOR
 - TERMITE TREATMENT; SEE ARCHITECTURAL

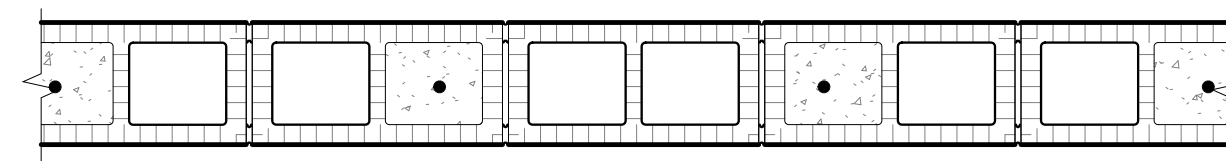


1 SLAB ON GRADE

S5.1 3" = 1'-0"

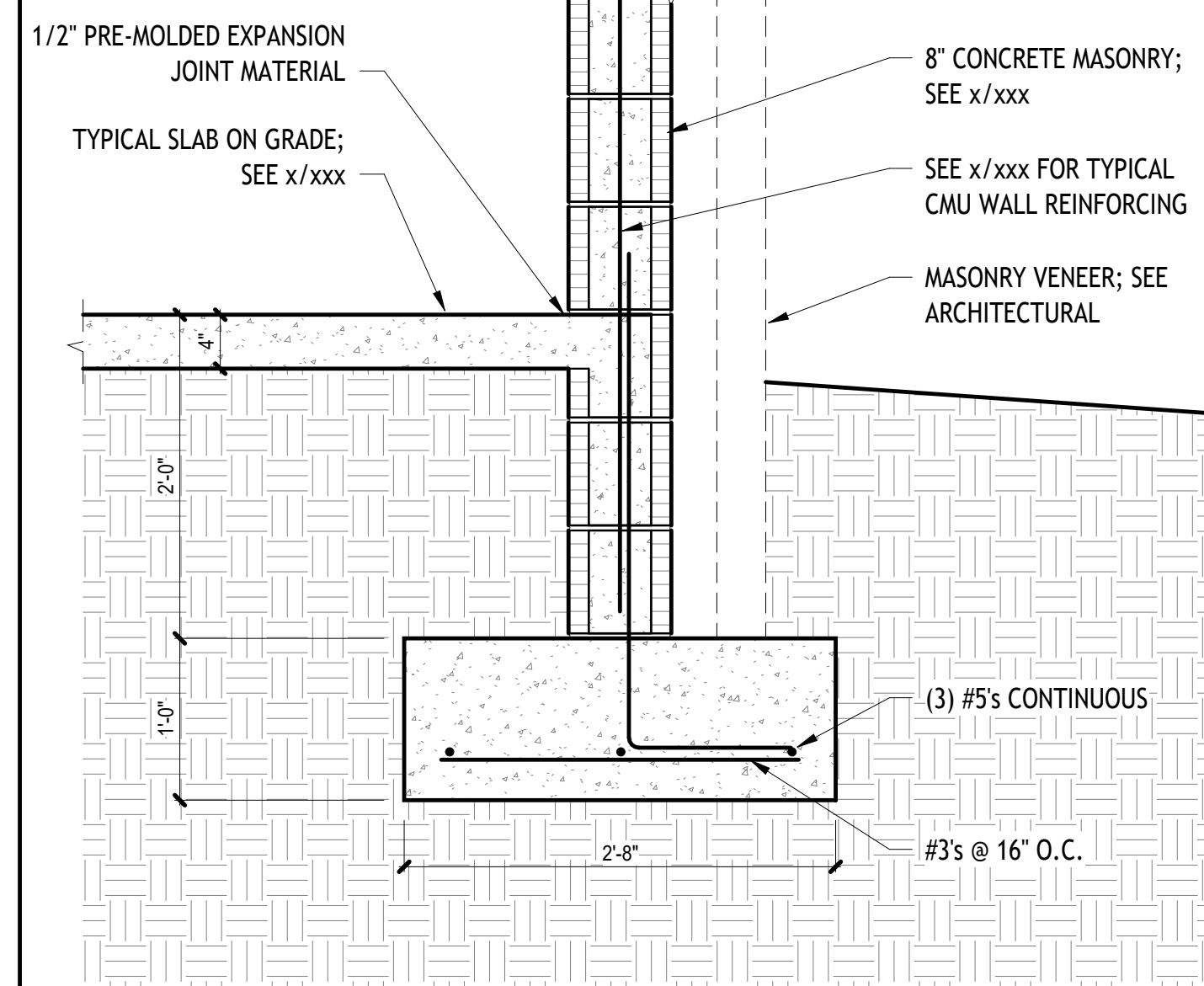
CONCRETE MASONRY ASSEMBLY

- ASSEMBLY**
- NOMINAL 8" CONCRETE MASONRY
 - #5's AT 24" O.C. VERTICALLY IN GROUT FILLED CELLS
 - HORIZONTAL JOINT REINFORCING AT 16" O.C.
 - SEE 4/S5.1 & 5/S5.1 FOR ADDITIONAL REINFORCEMENT CONDITIONS



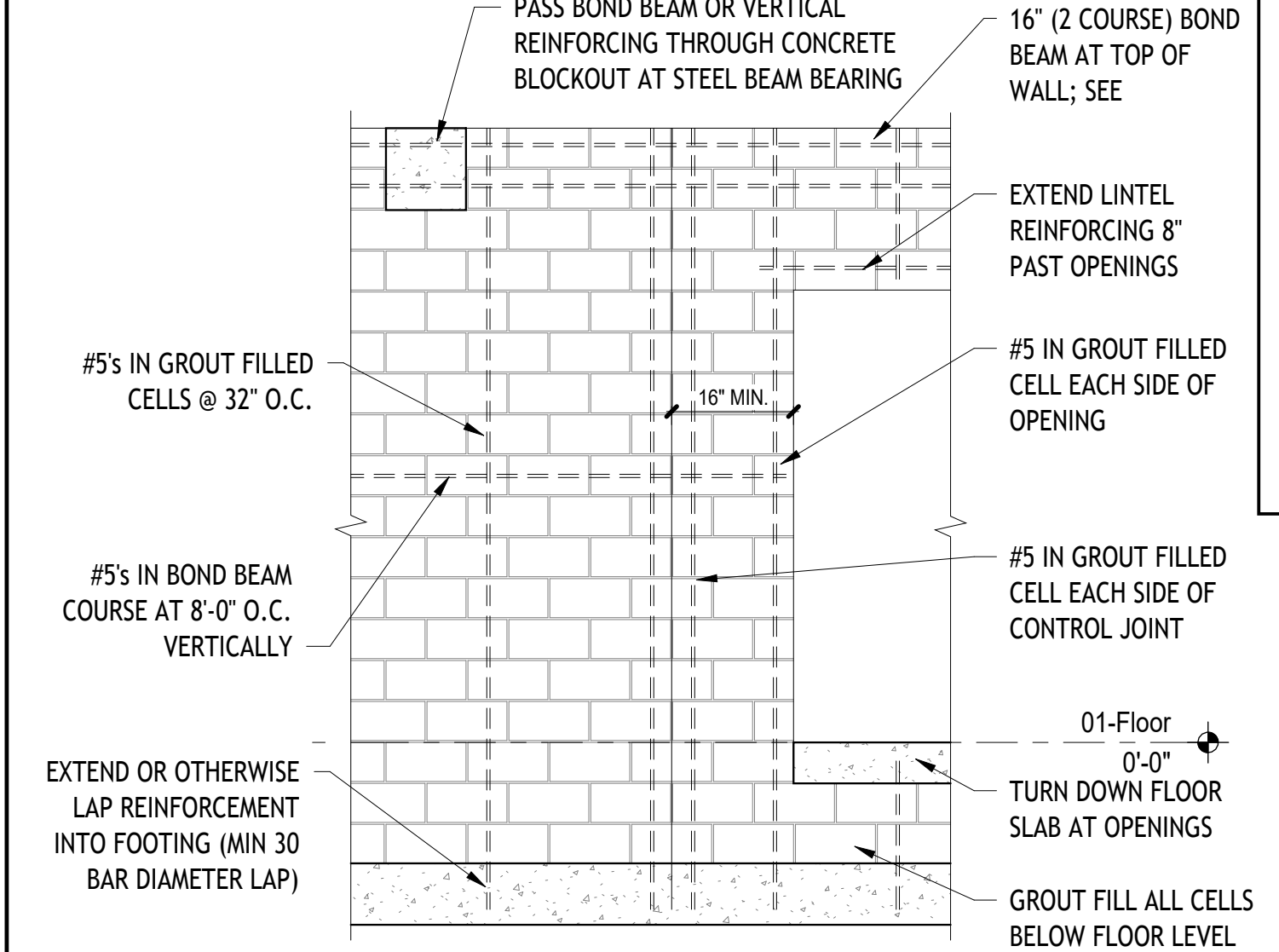
2 WALL ASSEMBLY

S5.1 1" = 1'-0"



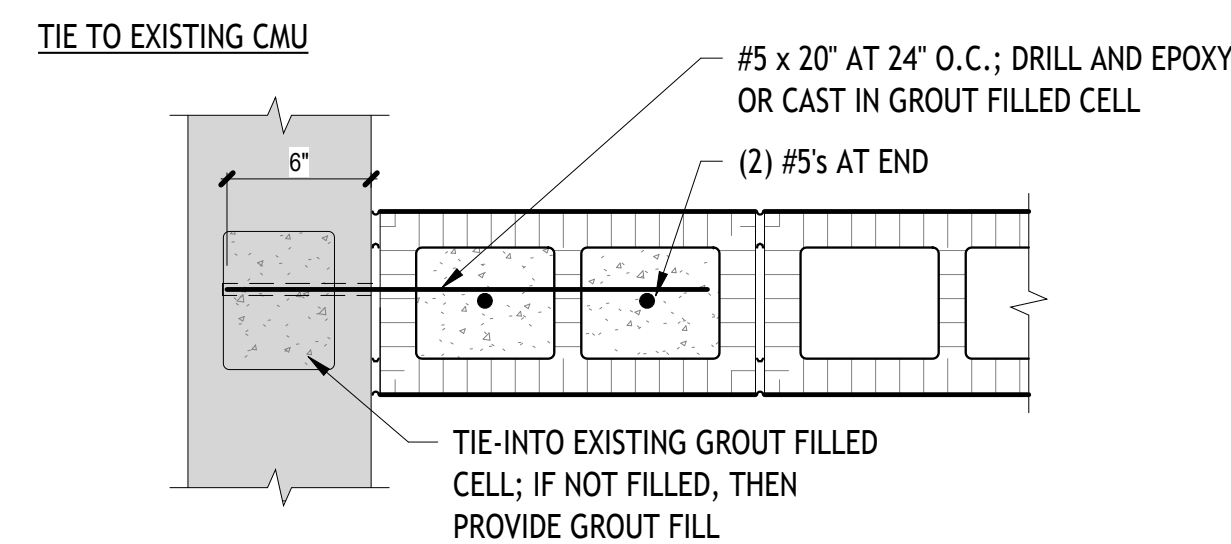
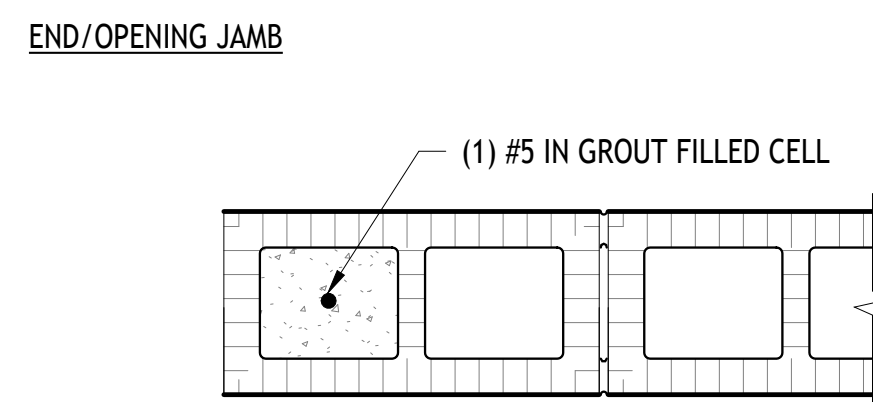
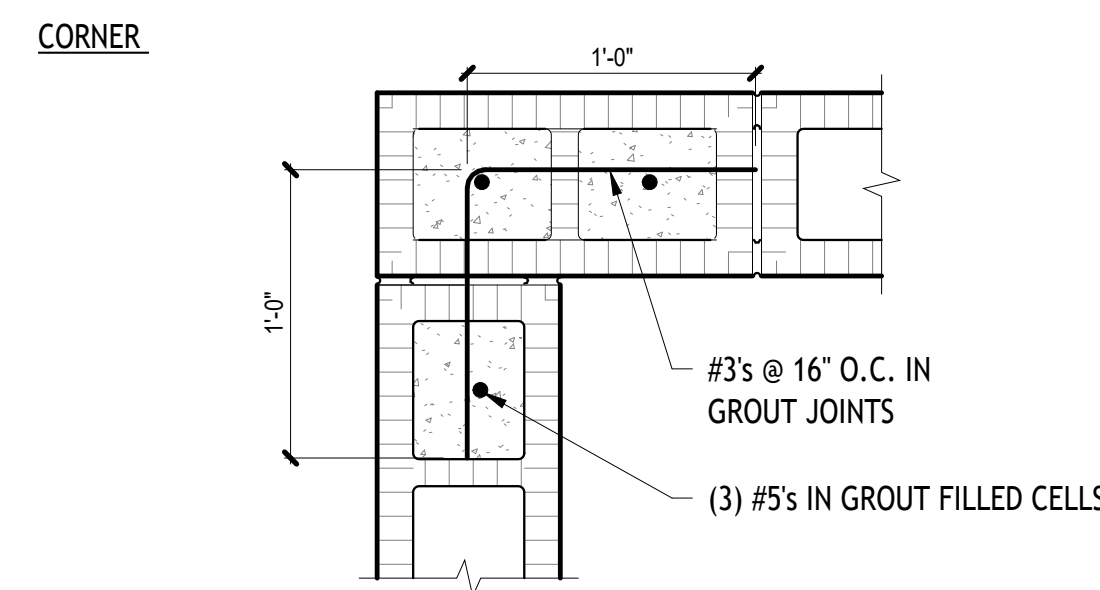
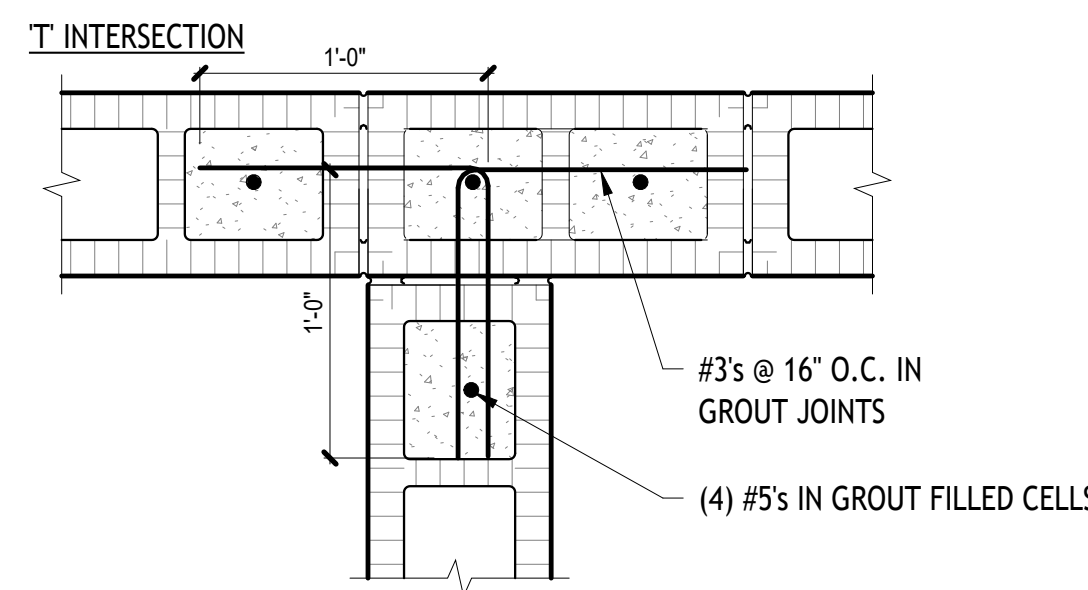
3 WALL FOOTING

S5.1 1" = 1'-0"



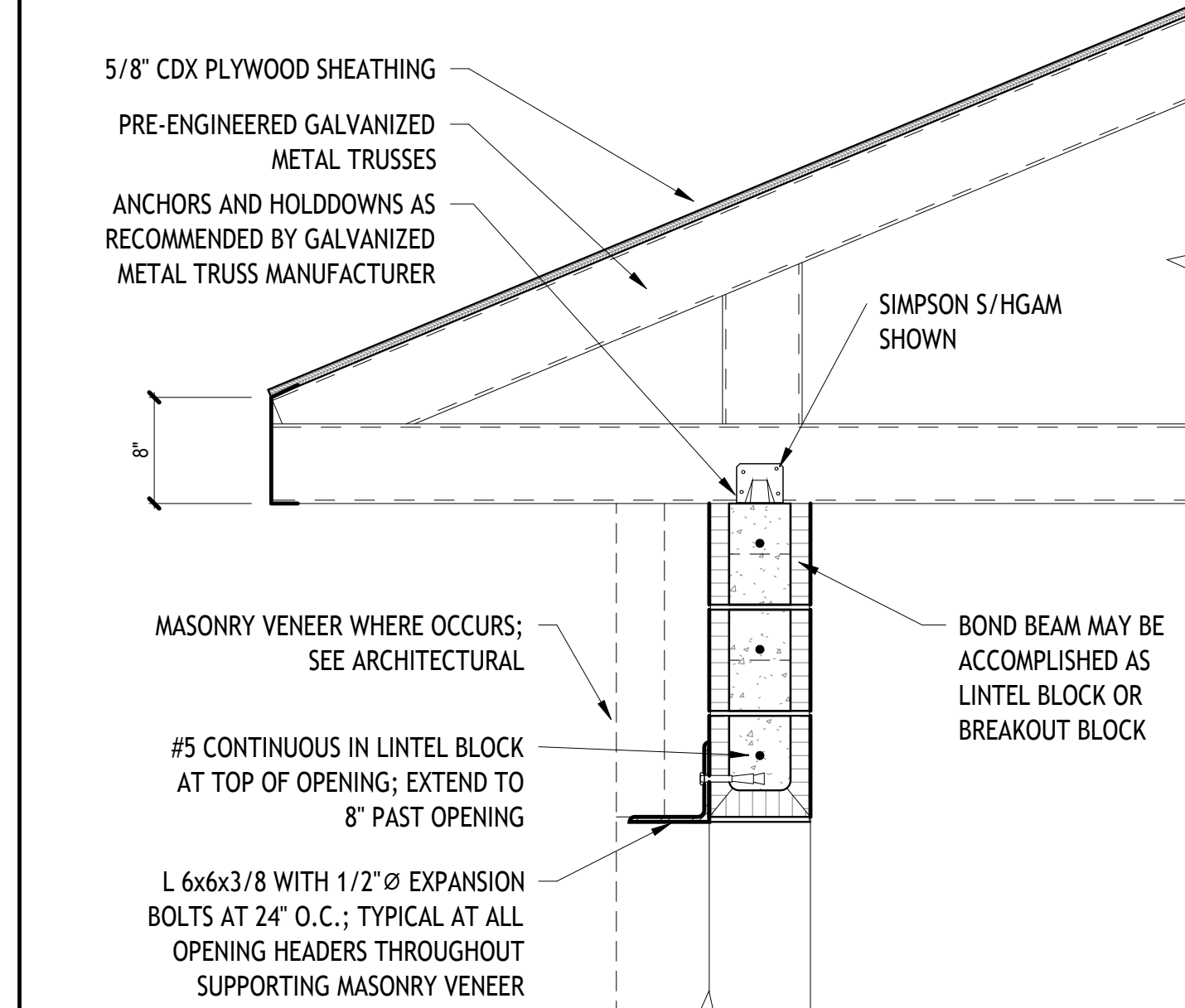
4 WALL REINFORCEMENT

S5.1 3/8" = 1'-0"



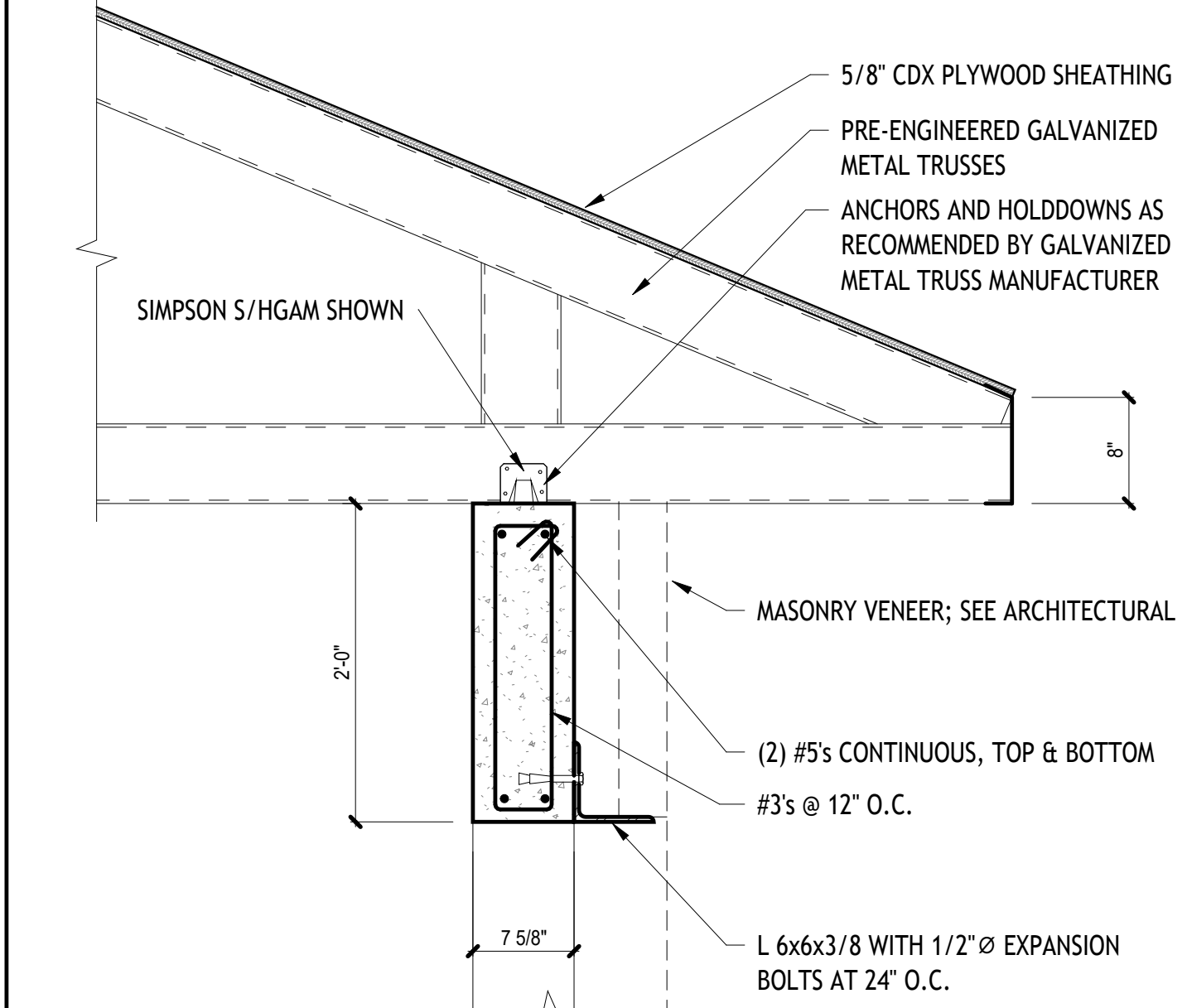
5 TYPICAL CMU REINFORCEMENT

S5.1 1 1/2" = 1'-0"



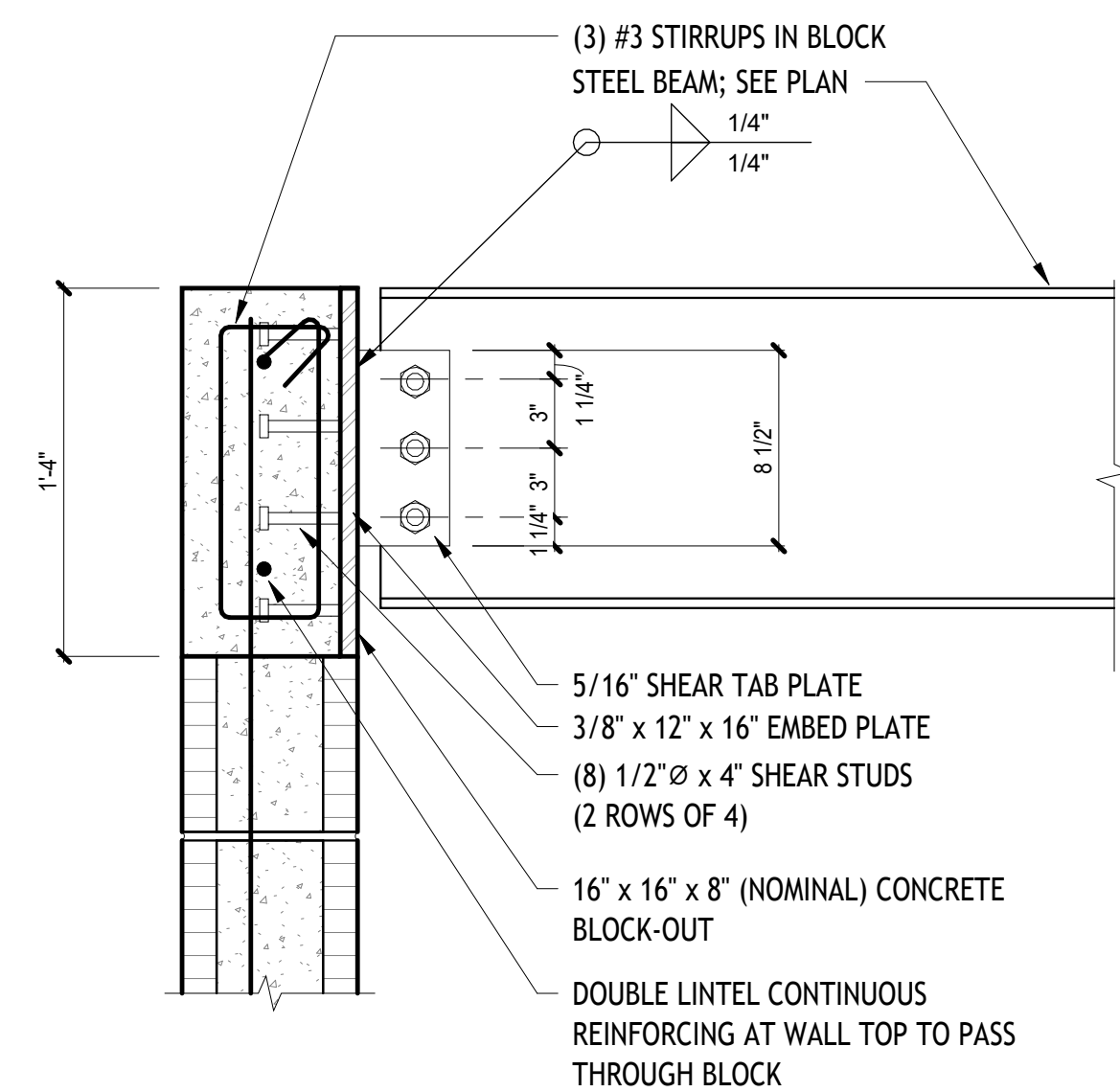
6 TRUSS BEARING & OPENINGS < 6'-0"

S5.1 1" = 1'-0"



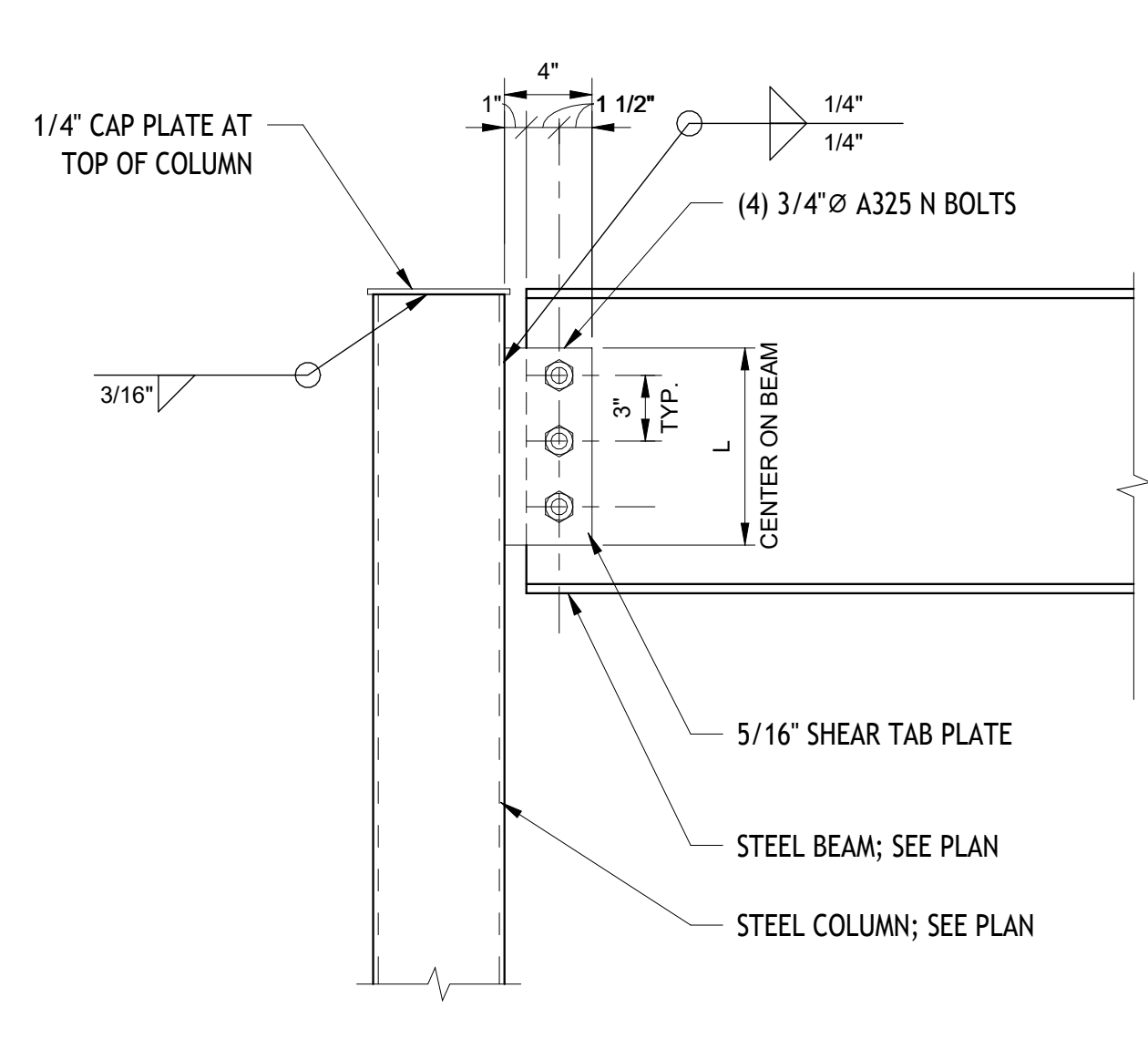
7 TRUSS BEARING & OPENING > 6'-0"

S5.1 1" = 1'-0"



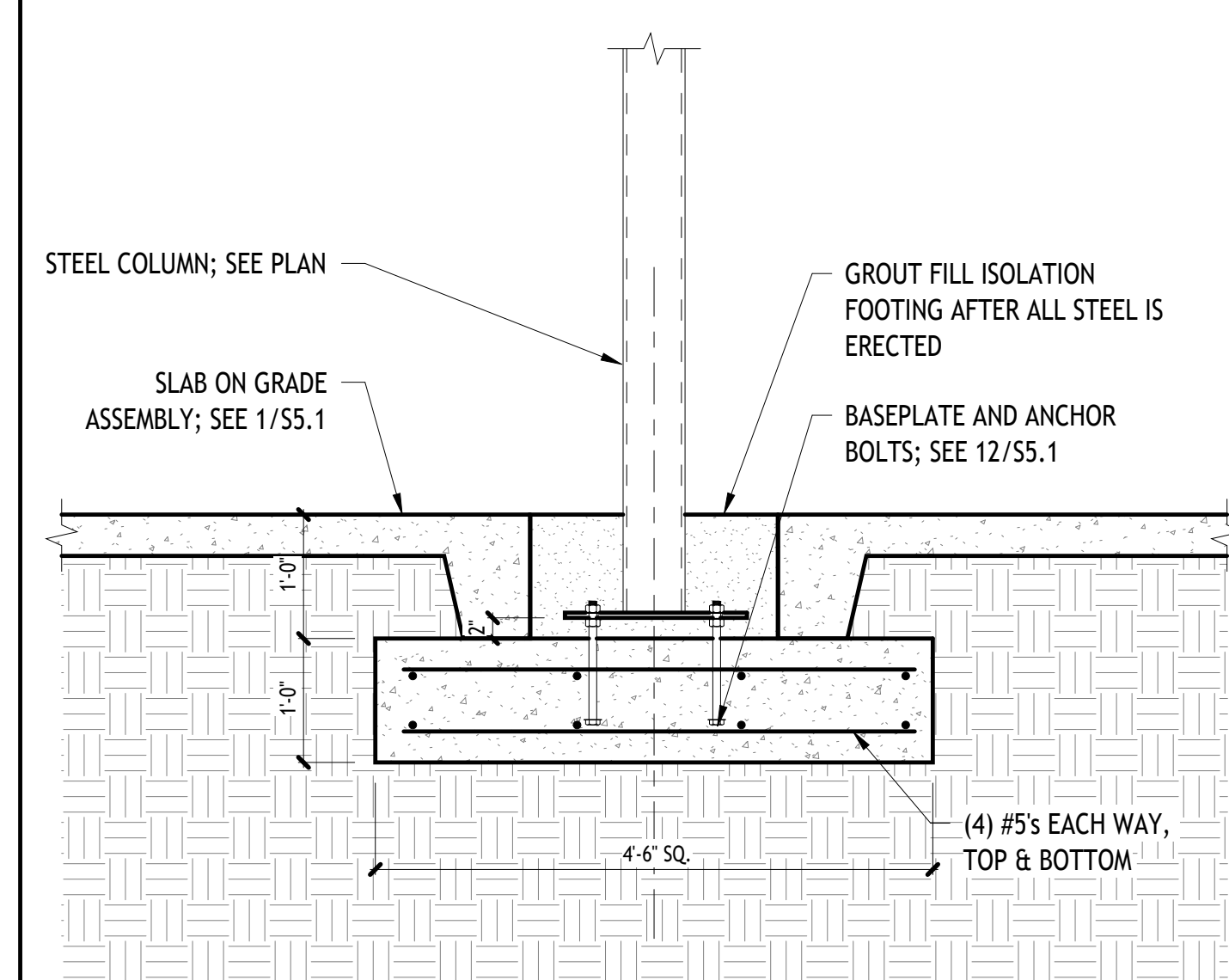
9 BEAM BEARING AT CMU

S5.1 1 1/2" = 1'-0"



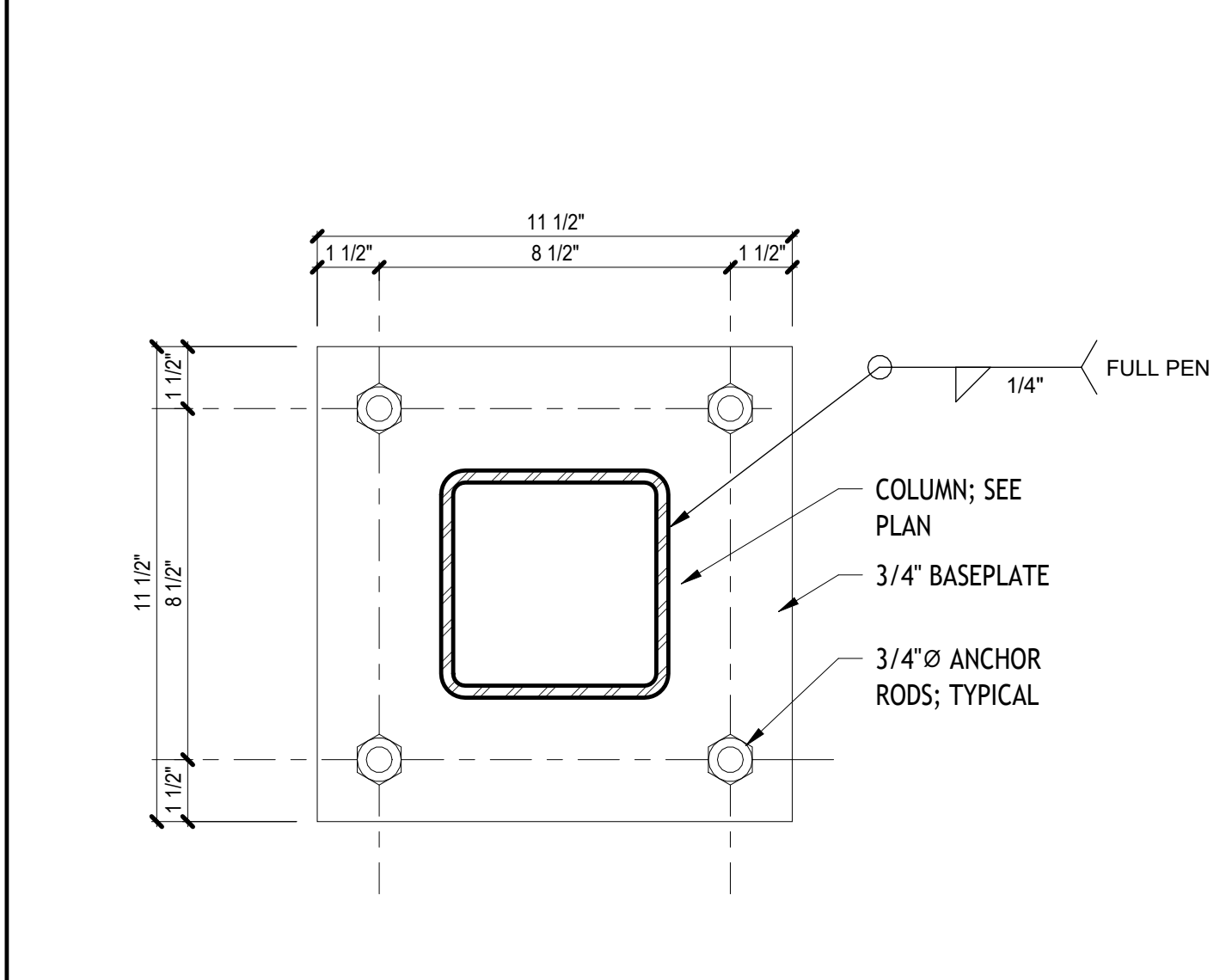
10 BEAM BEARING AT COLUMN

S5.1 1 1/2" = 1'-0"



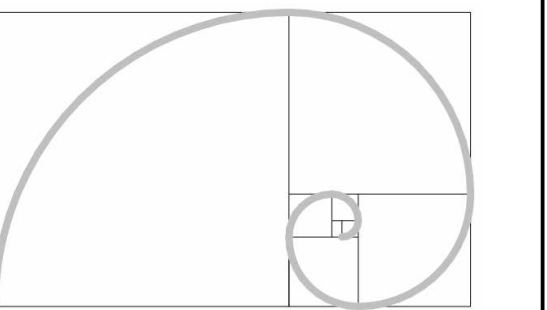
11 COLUMN FOOTING

S5.1 3/4" = 1'-0"



12 BASEPLATE DETAIL

S5.1 3" = 1'-0"



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SYSTEM DESIGN APPROACH CRITERIA

ORDINARY HAZARD GROUP 1 - WET PIPE FIRE SPRINKLER SYSTEM WITH A DENSITY OF .15 GPM OVER A MINIMUM REMOTE AREA OF 1500 SQUARE FEET WITH A HOSE STREAM ALLOWANCE OF 250 GPM AND 130 SQUARE FEET OF COVERAGE PER SPRINKLER HEAD MAXIMUM.

LIGHT HAZARD - WET PIPE FIRE SPRINKLER SYSTEM WITH A DENSITY OF .10 GPM OVER A MINIMUM REMOTE AREA OF 1500 SQUARE FEET WITH A HOSE STREAM ALLOWANCE OF 100 GPM AND 225 SQUARE FEET OF COVERAGE PER SPRINKLER HEAD MAXIMUM.

SPRINKLER DESIGN SHALL BE IN ACCORDANCE WITH NFPA 13.

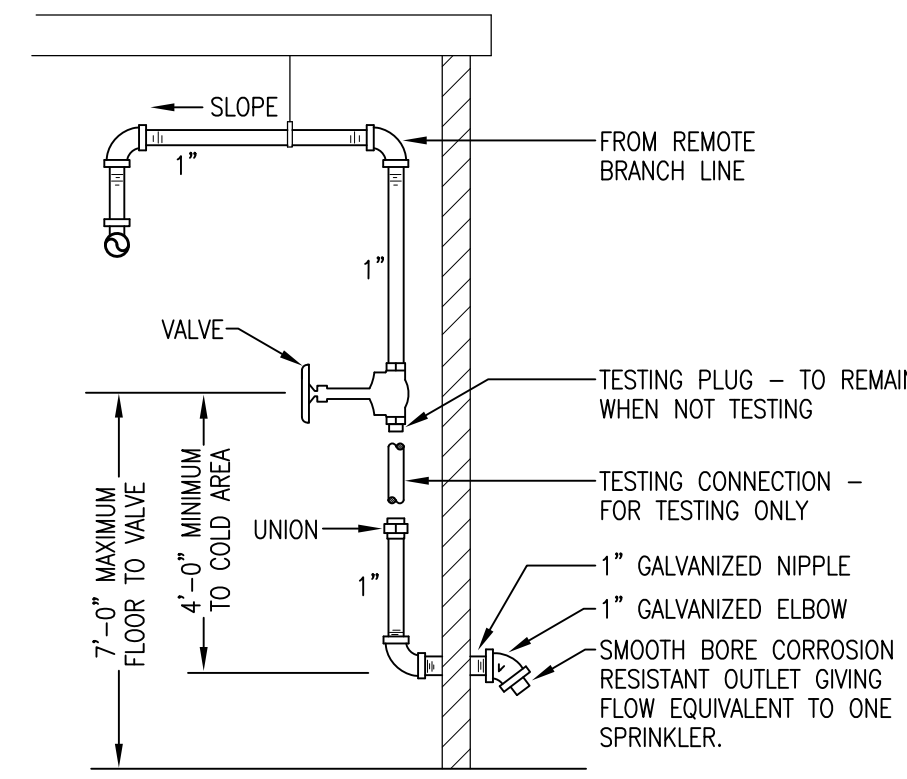
ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.

WATER FLOW DATA

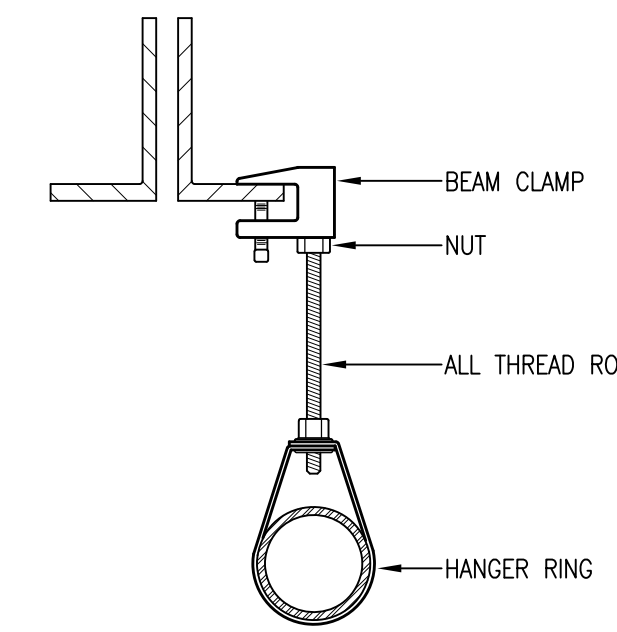
WATER FLOW TEST DATA IS FOR ESTIMATING PURPOSES ONLY AND IS CONSIDERED NOT CURRENT AT THE POINT OF SERVICE. THE CONTRACTOR SHALL CONDUCT A HYDRANT FLOW TEST AT POINT OF CONNECTION TO OBTAIN CURRENT FLOW CONDITIONS FOR THE SPRINKLER SYSTEM HYDRAULIC CALCULATIONS.

(MIC) MICROBIAL INDUCED CORROSION IS NOT EXPECTED.

STATIC PRESSURE: **72 PSI**
RESIDUAL PRESSURE: **57 PSI**
WATER FLOW: **1538 GPM**



INSPECTORS TEST CONNECTION DETAIL
NOT TO SCALE



PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING AND/OR DEVICES ARE TO BE ATTACHED TO THE SPRINKLER PIPE HANGER SYSTEM UNLESS THE HANGER HAS BEEN SPECIFICALLY DESIGNED FOR THE ADDITIONAL LOADING.

THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO ENABLE IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM.

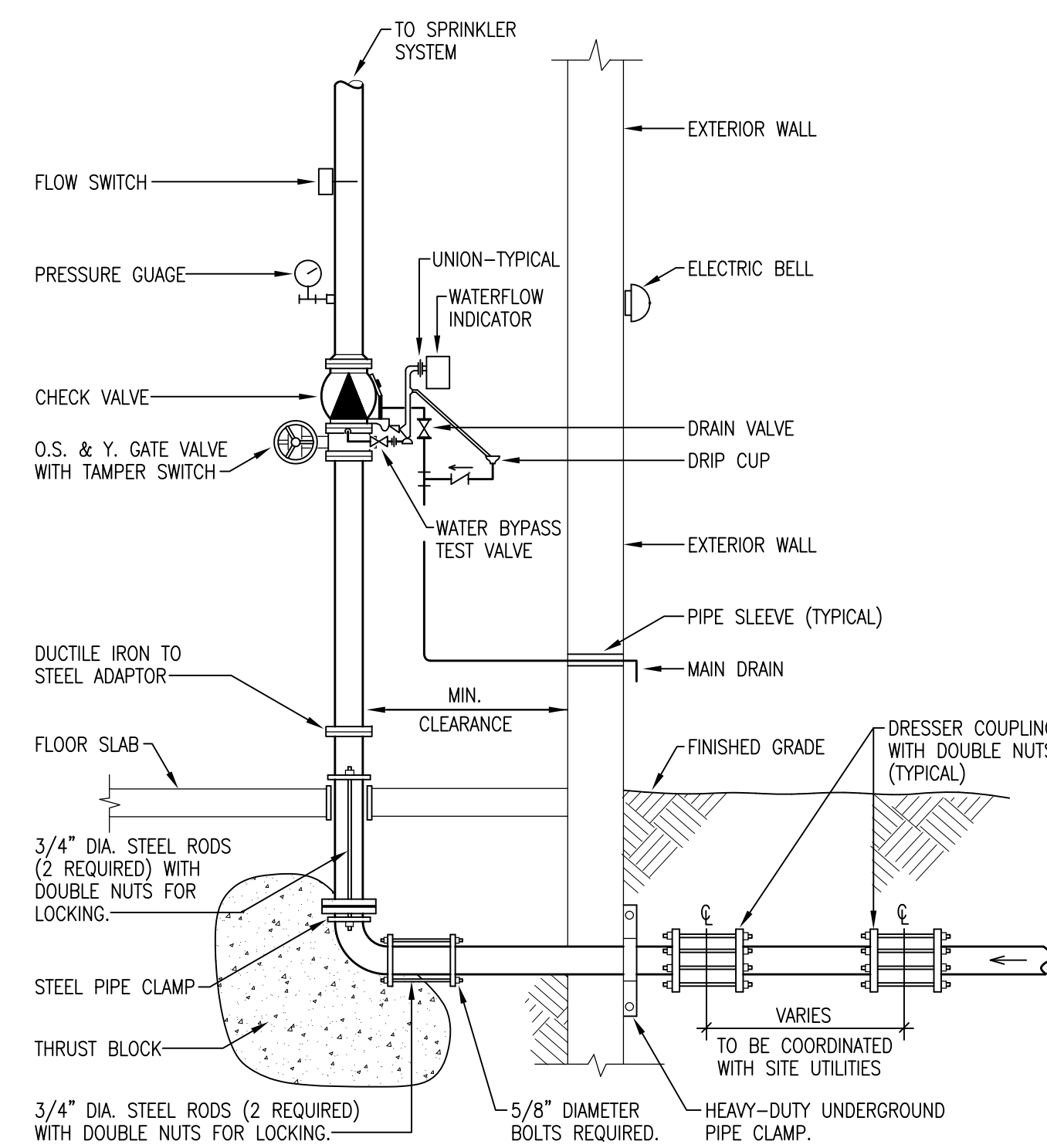
BEAM HANGER DETAIL
NOT TO SCALE

6" FIRE WATER SUPPLY. REFERENCE CIVIL PLAN FOR CONTINUATION. FDC TO BE INSTALLED BY OTHERS. FIRE PROTECTION CONTRACTOR SHALL VERIFY INSTALLATION OF REMOTE FDC.

SPRINKLER RISER (REFERENCE DETAIL ON THIS SHEET)

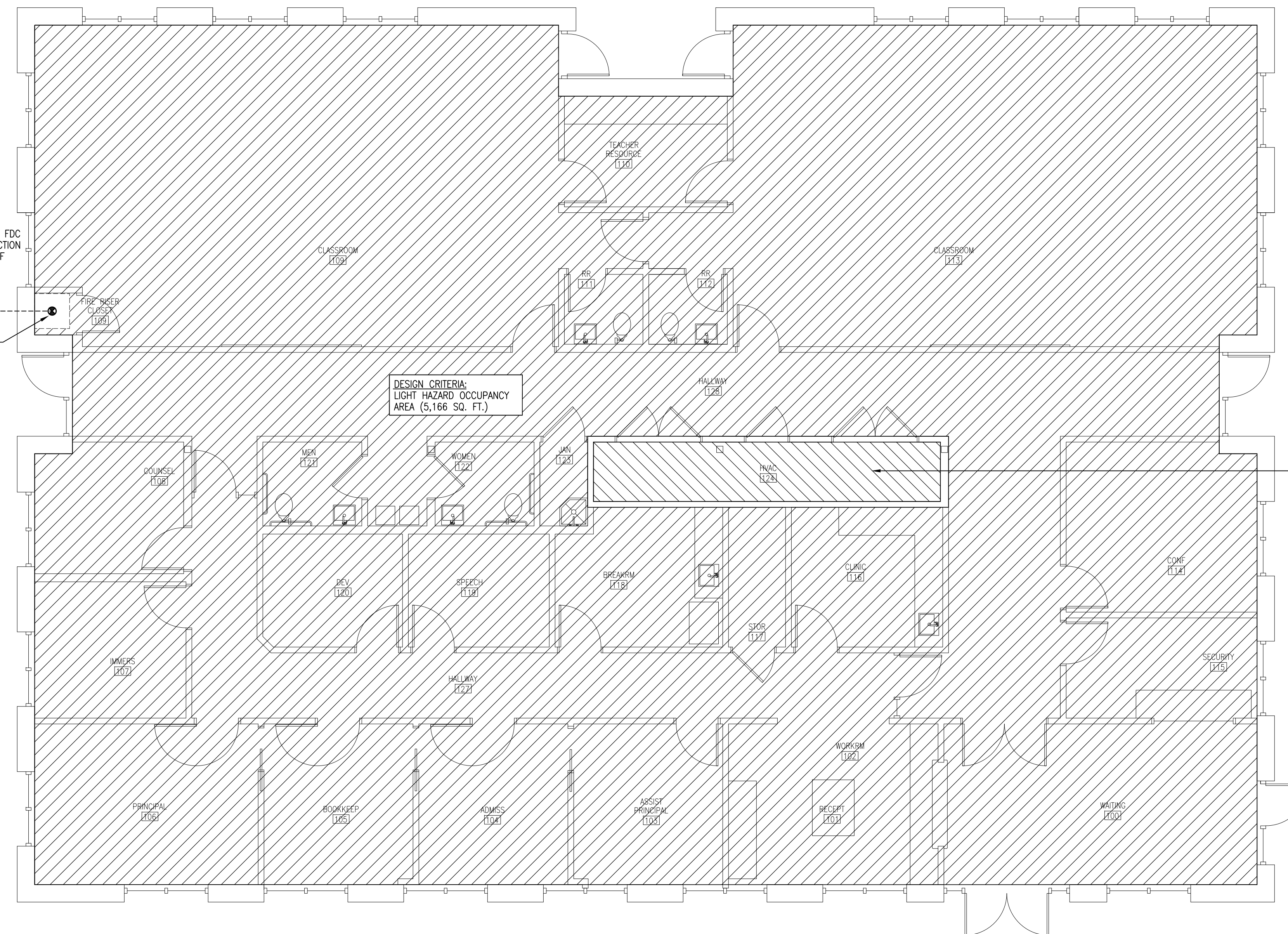
DESIGN CRITERIA:
LIGHT HAZARD OCCUPANCY
AREA (5,166 SQ. FT.)

DESIGN CRITERIA:
MECHANICAL ROOM
ORDINARY HAZARD GROUP 1
AREA (106 SQ. FT.)

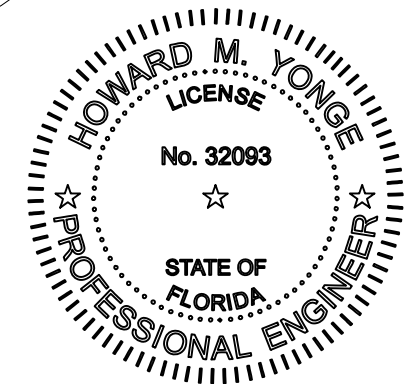


NOTE:
FIRE DEPARTMENT CONNECTION TO BE INSTALLED ON DOWN STREAM SIDE OF BACKFLOW PREVENTER.

WET PIPE FIRE RISER DETAIL
NOT TO SCALE



Fire Protection Plan
3/16"=1'-0"

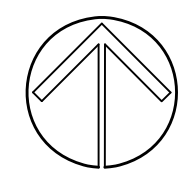
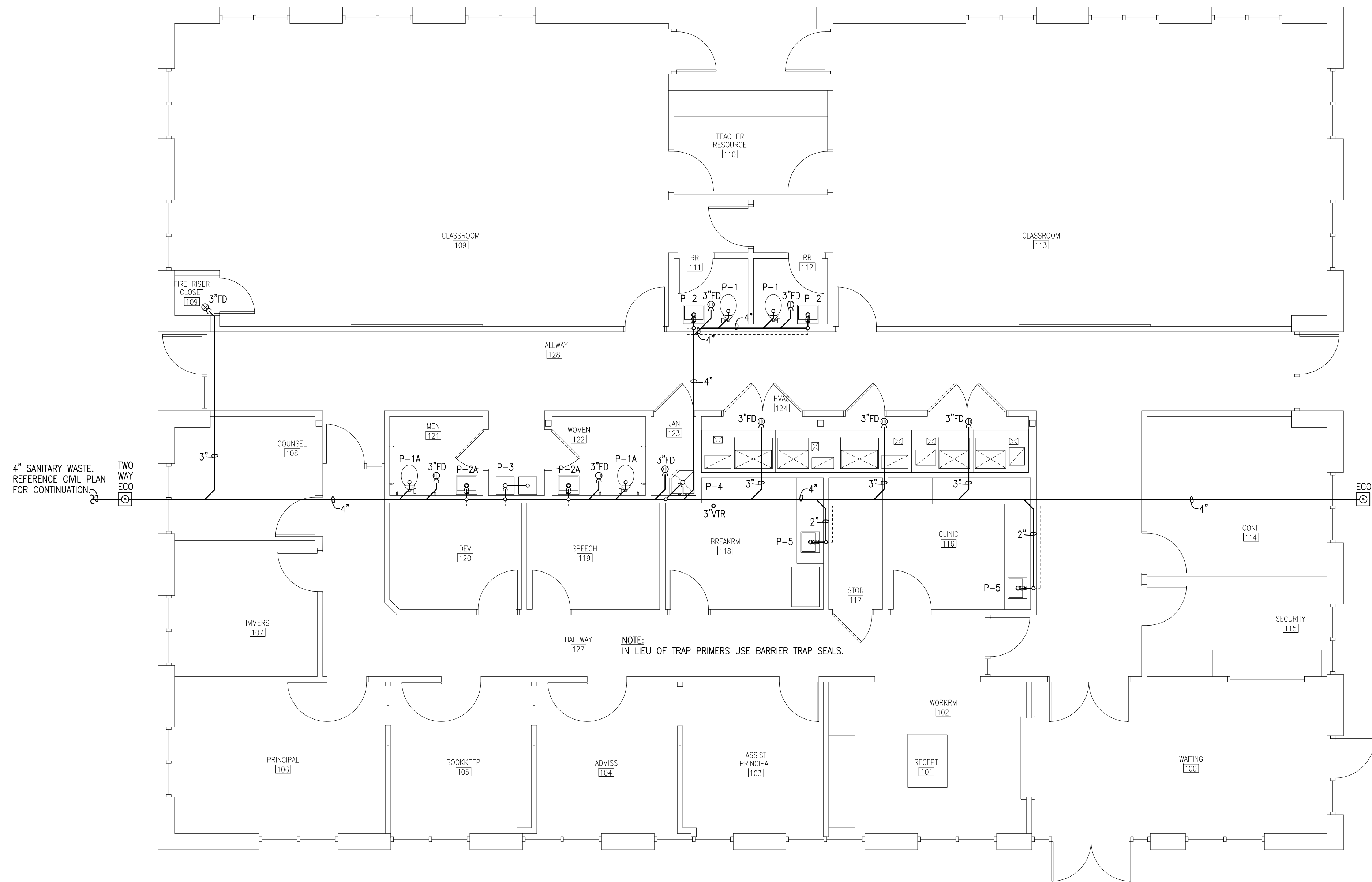


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CONSULTING ENGINEERS / EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)434-2661
CERTIFICATION OF AUTHORIZATION No. 5254
MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG. NO. 32093
ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG. NO. 79379

Project
Admin-Classroom Building
St. Mary Catholic School
Fort Walton Beach, Florida

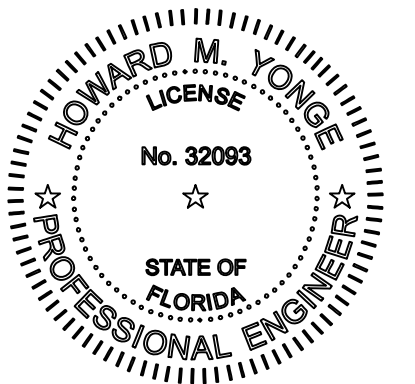
Date:
04-24-26
Project No.
2025

Sheet No.
FP1.1



Sanitary Waste Plan

3/16"=1'-0"



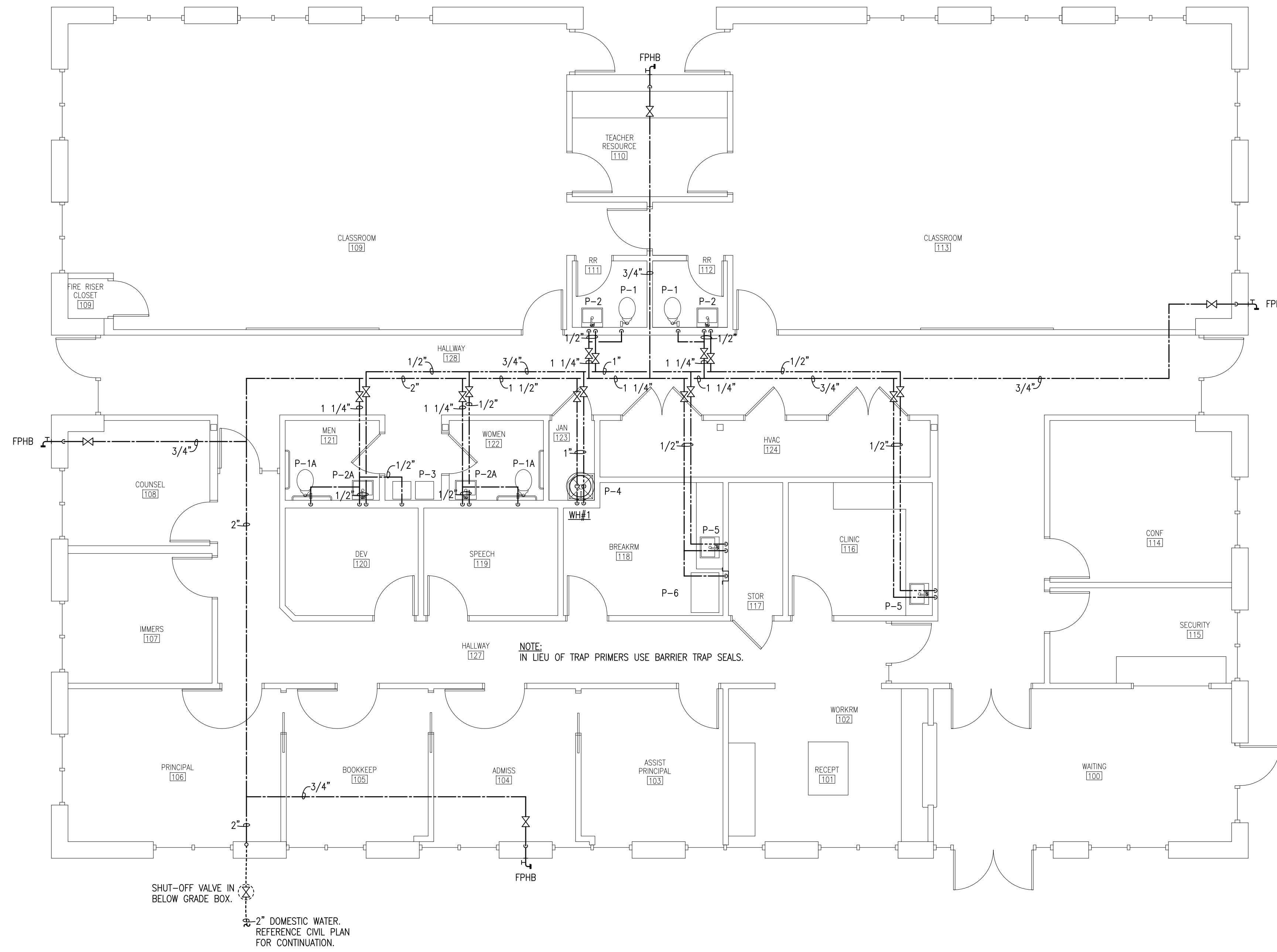
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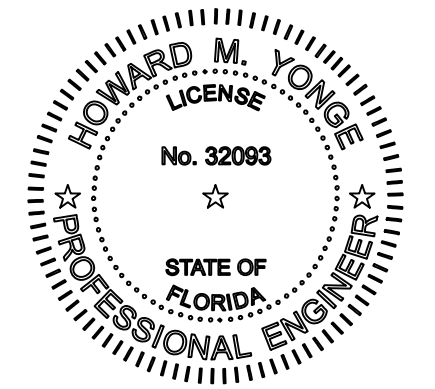
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 ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG No. 79379

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 Project No. 2025
 Sheet No. **P1.1**



 **Domestic Water Plan**
3/16"=1'-0"



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St. Mary Catholic School
Fort Walton Beach, Florida
Date: 04-24-26
Project No. 2025
Sheet No. **P2.1**

PLUMBING FIXTURE CONNECTION SCHEDULE

| MARK | FIXTURE | CONNECTIONS | | | DESCRIPTION |
|------|----------------------------|-------------|------|------|---|
| | | WASTE | CW | HW | |
| P-1 | WATER CLOSET | 4" | 1" | -- | 15" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, FLUSH VALVE TYPE. PROVIDE WHITE OPEN FRONT SEAT LESS COVER, FLUSH VALVE AND FLEXIBLE SUPPLY WITH STOP. |
| P-1A | WATER CLOSET (HANDICAPPED) | 4" | 1" | -- | 17" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, FLUSH VALVE TYPE. PROVIDE WHITE OPEN FRONT SEAT LESS COVER, FLUSH VALVE AND FLEXIBLE SUPPLY WITH STOP. INSTALL PER ADA REQUIREMENTS. |
| P-2 | LAVATORY | 1 1/2" | 1/2" | 1/2" | WALL HUNG TYPE. PROVIDE WITH SINGLE LEVER FAUCET, GRID WASTE, 17 GA P-TRAP, FLEXIBLE SUPPLIES WITH STOPS, AND FLOOR MOUNTED CONCEALED ARM CARRIER. |
| P-2A | LAVATORY (HANDICAPPED) | 1 1/2" | 1/2" | 1/2" | WALL HUNG TYPE. PROVIDE WITH SINGLE LEVER FAUCET, GRID WASTE, 17 GA P-TRAP, FLEXIBLE SUPPLIES WITH STOPS, TRAP INSULATION KIT, AND FLOOR MOUNTED CONCEALED ARM CARRIER. INSTALL PER ADA REQUIREMENTS. |
| P-3 | WATER COOLER (HANDICAPPED) | 1 1/2" | 1/2" | -- | DUAL HEIGHT WITH BOTTLE FILLING STATION, BARRIER FREE, WALL MOUNTED TYPE WITH ROUGH BRASS STOPS, 17 GA. P-TRAP, AND WALL HANGER. INSTALL PER ADA REQUIREMENTS. |
| P-4 | MOP SINK | 3" | 1/2" | 1/2" | 24"x24" TERRAZZO SERVICE BASIN WITH WALL MOUNTED SERVICE SINK FAUCET, VACUUM BREAKER, WALL BRACE, 3" STAINLESS STEEL DRAIN, AND STAINLESS STEEL RIM GUARD. |
| P-5 | BREAKROOM SINK | 1 1/2" | 1/2" | 1/2" | 18"x24"x10-1/2" DEEP UNDER COUNTER MOUNTED SINGLE COMPARTMENT STAINLESS STEEL SINK, PROVIDE WITH SINGLE LEVER FAUCET, BASKET STRAINER, 17 GA. P-TRAP, FLEXIBLE SUPPLIES WITH STOPS. |
| P-6 | ICE MAKER BOX | --- | 3/8" | -- | RECESSED WALL BOX WITH 1/4" TURN ANGLE STOP. |

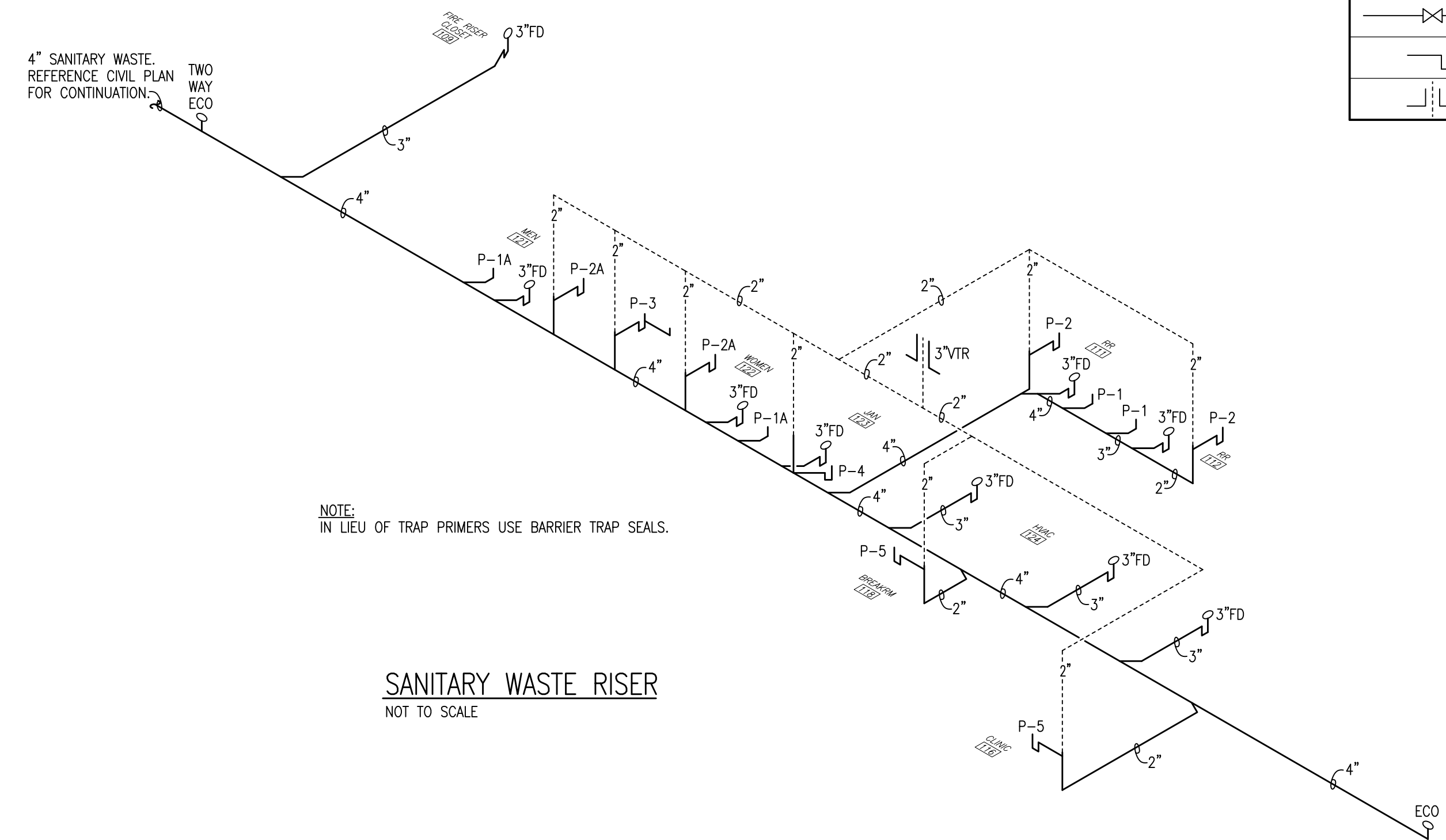
NOTE: FIXTURES SHALL BE WHITE AND FAUCETS SHALL BE POLISHED CHROME UNLESS OTHERWISE INDICATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL HANDICAPPED FIXTURES SHALL BE ADA COMPLIANT AND INSTALLED PER ADA REQUIREMENTS. REFERENCE ARCHITECTURAL PLANS FOR INSTALLATION HEIGHTS. ALL DOMESTIC WATER PIPING ABOVE THE SLAB SHALL BE INSULATED INCLUDING PIPING INSIDE WALLS. PIPING SHALL NOT BE INSTALLED IN A MANNER IN WHICH CONTACT WITH MASONRY PRODUCTS IS ALLOWED.

WATER HEATER SCHEDULE

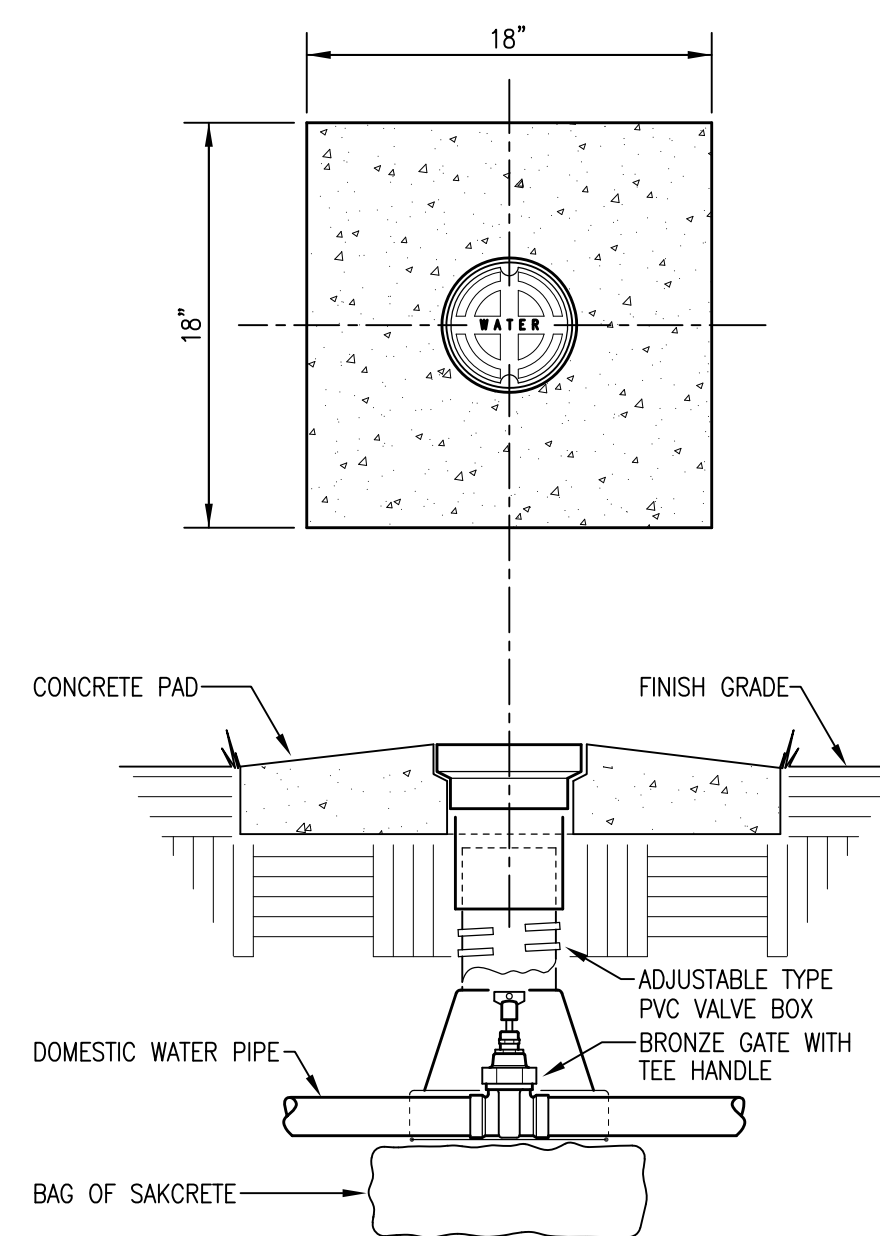
| MARK WH# | CAPACITY (GALLONS) | WATER TEMP. | | RECOVERY GPH @ 100' RISE | ELECTRICAL DATA | | | | REMARKS |
|----------|--------------------|-------------|--------|--------------------------|-----------------|----|-------|-----|--|
| | | ENT °F | LVG °F | | VOLTS | Hz | PHASE | KW | |
| 1 | 20 | 40 | 140 | 61 | 208 | 60 | 1 | 4.5 | GLASS-LINED, FOAM INSULATED, ENERGY MIZER TYPE WITH EXPANSION TANK, T&P RELIEF VALVE, AUXILIARY DRAIN PAN AND HEAT TRAPS. WATER HEATER TO BE LOWBOY TYPE EQUAL TO RHEEM. |

PLUMBING LEGEND

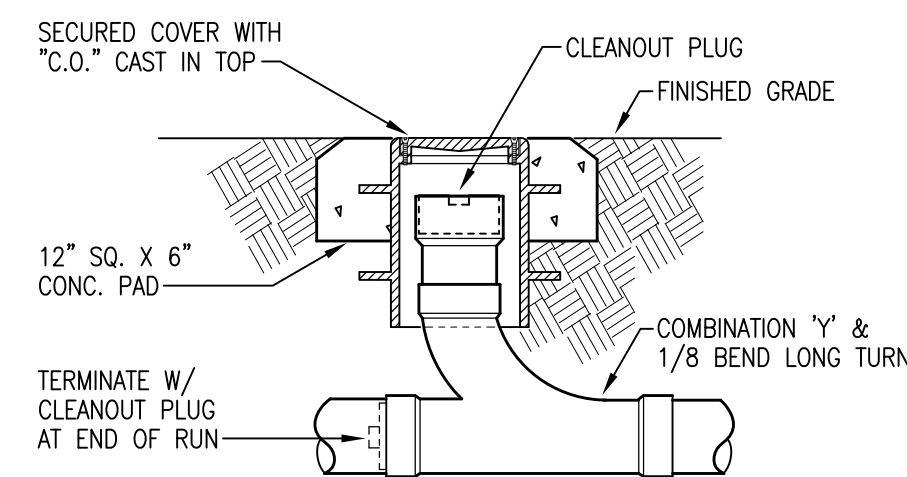
| | |
|------|------------------------|
| AAV | AIR ADMITTANCE VALVE |
| AFF | ABOVE FINISHED FLOOR |
| CW | COLD WATER |
| ECO | EXTERIOR CLEANOUT |
| FD | FLOOR DRAIN |
| FPHB | FREEZE PROOF HOSE BIBB |
| HW | HOT WATER |
| WH | WATER HEATER |
| VTR | VENT THRU ROOF |
| --- | COLD WATER PIPING |
| --- | HOT WATER PIPING |
| --- | WASTE PIPING |
| --- | VENT PIPING |
| --- | BALL VALVE |
| --- | P-TRAP |
| --- | VENT THRU ROOF |



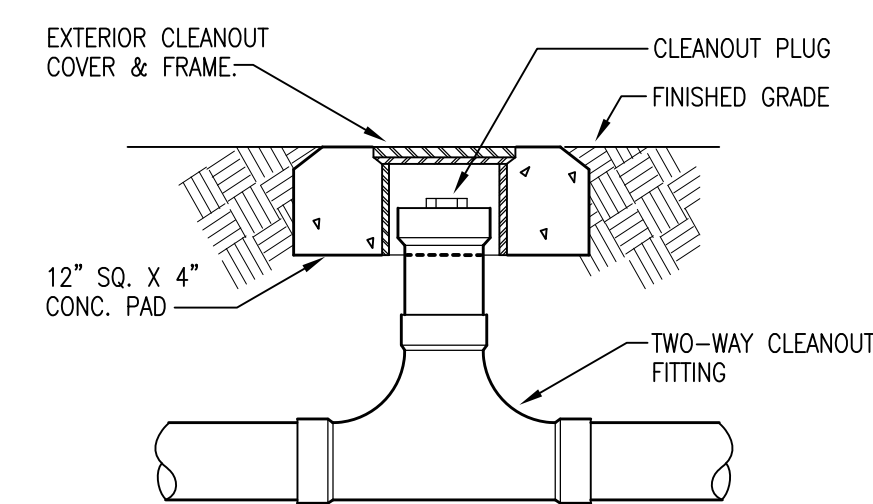
SANITARY WASTE RISER
NOT TO SCALE



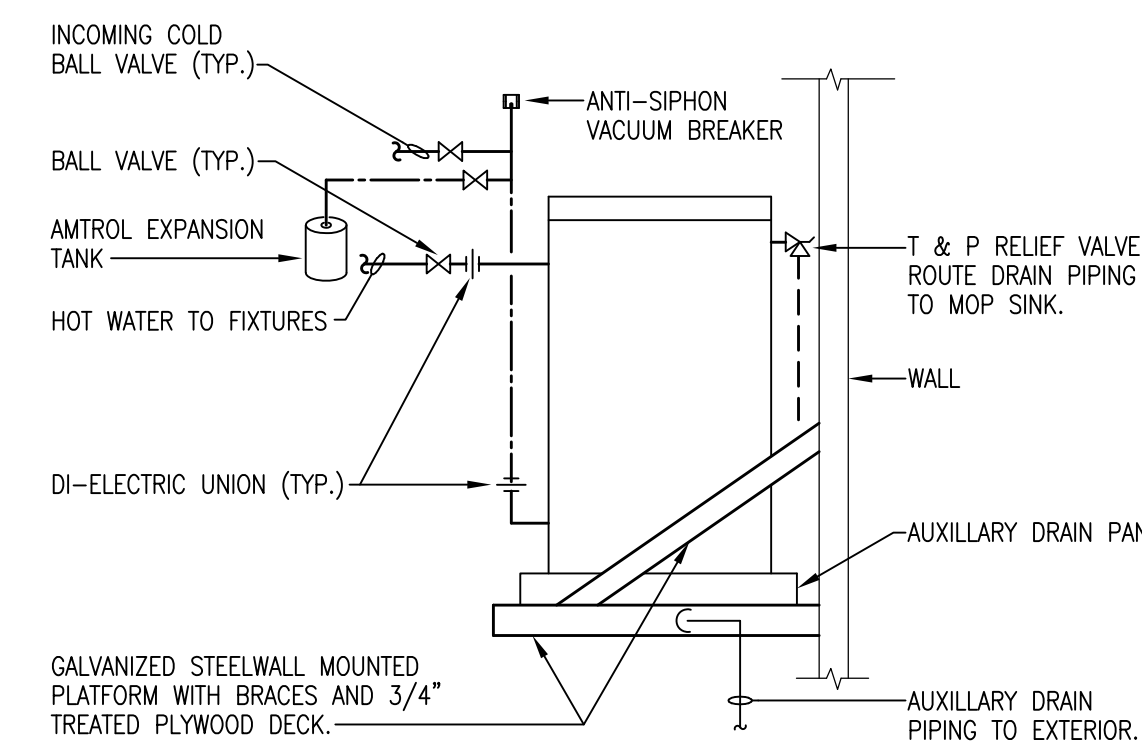
SHUT-OFF VALVE AND VALVE BOX DETAIL
NOT TO SCALE



EXTERIOR CLEANOUT DETAIL
NOT TO SCALE

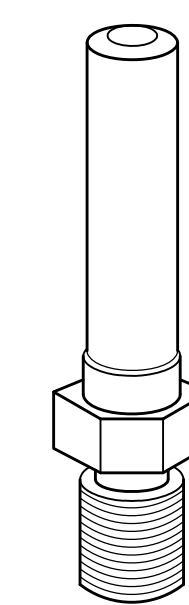


TWO-WAY CLEANOUT DETAIL
NOT TO SCALE



NOTE: WATER HEATER MOUNTED ABOVE CEILING.

ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



NOTE: WATER HAMMER ARRESTORS TO BE LOCATED ABOVE ELEVATION OF CEILING AND BE ACCESSIBLE THROUGH CEILING TILE. IN AREAS WITHOUT CEILING ACCESS, PROVIDE 12"x12" ACCESS PANELS. ACCESS PANEL LOCATIONS TO BE COORDINATED WITH ARCHITECT AND APPROVED BY OWNER PRIOR TO INSTALLATION.

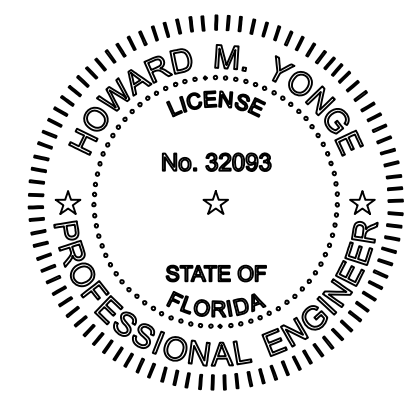
WATER HAMMER DETAIL
NOT TO SCALE

| AIR PRELOAD PSI | FIXTURE UNITS | P.D.I. SYMBOL |
|-----------------|---------------|---------------|
| 60 | 1-11 | A |
| 60 | 12-32 | B |
| 60 | 33-60 | C |

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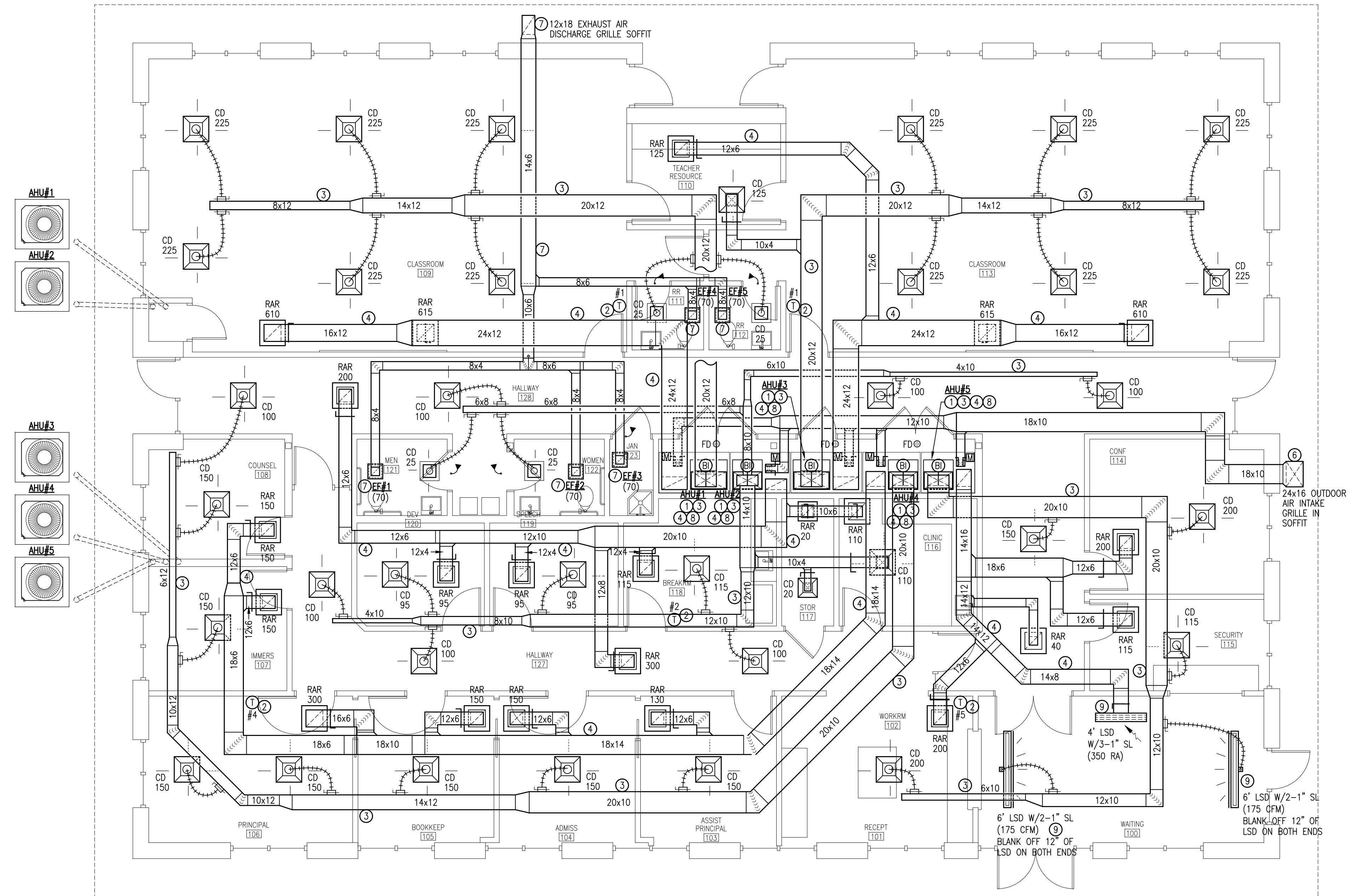
CERTIFICATION OF AUTHORIZATION No. 5254
MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG. NO. 32093
ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG. NO. 19379



Project
Admin-Classroom Building
St. Mary Catholic School
Fort Walton Beach, Florida

Date:
04-24-26
Project No.
2025

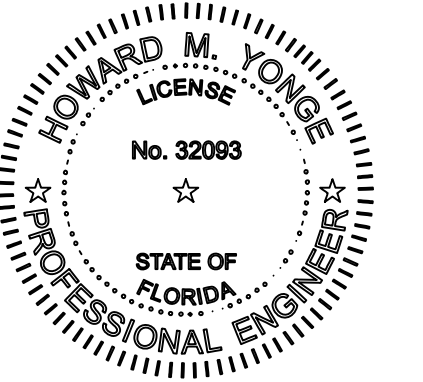
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P3.1



MECHANICAL NEW WORK KEY NOTES:

- 1 AIR HANDLING UNIT MOUNTED ON RETURN AIR PLENUM CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS. INTERIOR OF PLENUM SHALL BE LINED WITH 1" THICK FIBER BOARD. ADJUST FINAL DIMENSIONS OF PLENUM TO ACCOMMODATE INSTALLATION OF A FLOOR DRAIN. COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR. ENSURE FILTER TRAY REMAINS COMPLETELY ACCESSIBLE. INCLUDE A FLOAT SWITCH IN CONDENSATE DRAIN LINE THAT SHALL AUTOMATICALLY SHUT DOWN UNIT AS DRAINAGE SYSTEM FLOODS. ROUTE FULLY INSULATED CONDENSATE DRAIN TO FLOOR DRAIN. SUPPORT DRAIN PIPING WITH UNISTRUT TYPE SUPPORT SYSTEM IN HORIZONTAL AND VERTICAL POSITIONS.
- 2 WALL MOUNTED TEMPERATURE CONTROLLER TO BE SEVEN DAY PROGRAMMABLE WITH DIGITAL DISPLAY, MODE SELECTION, OCCUPIED/UNOCCUPIED SCHEDULING, AUTOMATIC CHANGE OVER AND BATTERY BACK-UP. ADDITIONALLY, TEMPERATURE CONTROLLER SHALL HAVE CONTACTS FOR CONTROL OF OUTDOOR AIR INTAKE MOTORIZED DAMPER.
- 3 ROUTE SUPPLY AIR DUCT UP FROM FULL SIZE OF AIR HANDLING UNIT OPENING AND TRANSITION TO INDICATED DUCT SIZE. INSTALL DUCT ABOVE CEILING FOR CONNECTION TO SUPPLY AIR DEVICES. OFFSET DUCT TO AVOID OBSTRUCTIONS AND INTERFERENCES. CONNECT AIR DEVICES TO TRUNK DUCT WITH BRANCH DUCT HAVING A MANUAL VOLUME DAMPER. BALANCE AIR DEVICES TO INDICATED AIR FLOW.
- 4 RETURN AIR DUCT SHALL BE DIRECTLY CONNECTED TO RETURN AIR PLENUM AND ROUTED UP TO ABOVE CEILING. ROUTE DUCT GENERALLY AS SHOWN WITH OFFSETS TO AVOID INTERFERENCES. PROVIDE DAMPERS IN DUCT CONNECTING TO RETURN AIR DEVICES. BALANCE EACH AIR DEVICE TO THE INDICATED AIR FLOW, OFFSET DUCT TO AVOID OBSTRUCTIONS.
- 5 OUTDOOR HEAT PUMP UNIT MOUNTED ON 4 INCH THICK CONCRETE PAD. PAD SHALL BE 4 INCHES LARGER THAN UNIT IN ALL DIRECTIONS. SECURE UNIT TO PAD AT EACH CORNER. EXTEND REFRIGERANT PIPING FROM UNIT BELOW GROUND INTO DESIGNATED STORAGE ROOM. TURN PIPING UP ON WALL TO ABOVE CEILING AND OVER FOR CONNECTION TO RESPECTIVE AIR HANDLING UNIT. UNDERGROUND REFRIGERANT PIPING SHALL HAVE 6 INCH PVC CONDUIT FROM CONDENSING UNIT INTO MECHANICAL CLOSET. SEAL OPEN ENDS OF CONDUIT WEATHER AND RODENT PROOF. MECHANICAL CONTRACTOR SHALL COORDINATE FINAL LOCATION OF UNDERGROUND CONDUIT WITH CIVIL CONTRACTOR FOR FINAL LOCATION OF FIRE MAIN SPRINKLER PIPING. SUPPORT REFRIGERANT PIPING EVERY 48 INCHES IN HORIZONTAL AND VERTICAL POSITIONS WITH UNISTRUT TYPE PIPE SUPPORT SYSTEM.
- 6 SOFFIT MOUNTED OUTDOOR AIR INTAKE GRILLE (EGG CRATE TYPE). GRILLE SHALL BE 12X16. EXTEND OUTDOOR AIR INTAKE DUCT UP FROM GRILLE AND ROUTE ABOVE CEILING OVER TO MECHANICAL CLOSET FOR CONNECTION TO RETURN AIR PLENUM. INCLUDE A MANUAL VOLUME DAMPER AND MOTORIZED DAMPER IN DUCT NEAR PLENUM. BALANCE MANUAL VOLUME DAMPER TO INDICATED AIR FLOW AND INTERLOCK MOTORIZED DAMPER WITH TEMPERATURE CONTROLLER. MOTORIZED DAMPER SHALL BE OPEN DURING OCCUPIED HOURS AND CLOSED OTHERWISE. MAINTAIN DISTANCE OF 10 FEET BETWEEN EXHAUST AIR DISCHARGE LOUVER AND OUTDOOR AIR INTAKE LOUVER.
- 7 CEILING MOUNTED EXHAUST FAN WITH DUCT ROUTED FOR CONNECTION TO EXHAUST AIR MANIFOLD. EXHAUST MANIFOLD SHALL BE EXTENDED FOR CONNECTION OF SOFFIT GRILLE FOR DISCHARGE THROUGH SOFFIT MOUNTED EXHAUST AIR GRILLE (EGG CRATE TYPE).
- 8 BI-POLAR AIR PURIFICATION DEVICE MOUNTED IN SUPPLY AIR DUCT. INSTALL PER MANUFACTURER REQUIREMENTS. OPERATION OF AIR PURIFICATION DEVICE SHALL BE INTERLOCKED WITH AIR HANDLING UNIT SUCH THAT AS UNIT IS OPERATING SO SHALL THE AIR PURIFICATION DEVICE, OTHERWISE BOTH SHALL NOT BE OPERATING.
- 9 LINEAR SLOT DIFFUSER (6 FT.) MOUNTED IN CEILING WITH DESIGNATED QUANTITY OF 1 INCH SLOTS. INCLUDE WITH DIFFUSER A FULL SIZE PLENUM FOR CONNECTION OF BRANCH DUCT. EACH END OF DIFFUSER SHALL BE BLANKED OFF FOR ONLY 4' OF ACTIVE DIFFUSER.

Mechanical New Work Plan
3/16" = 1'-0"

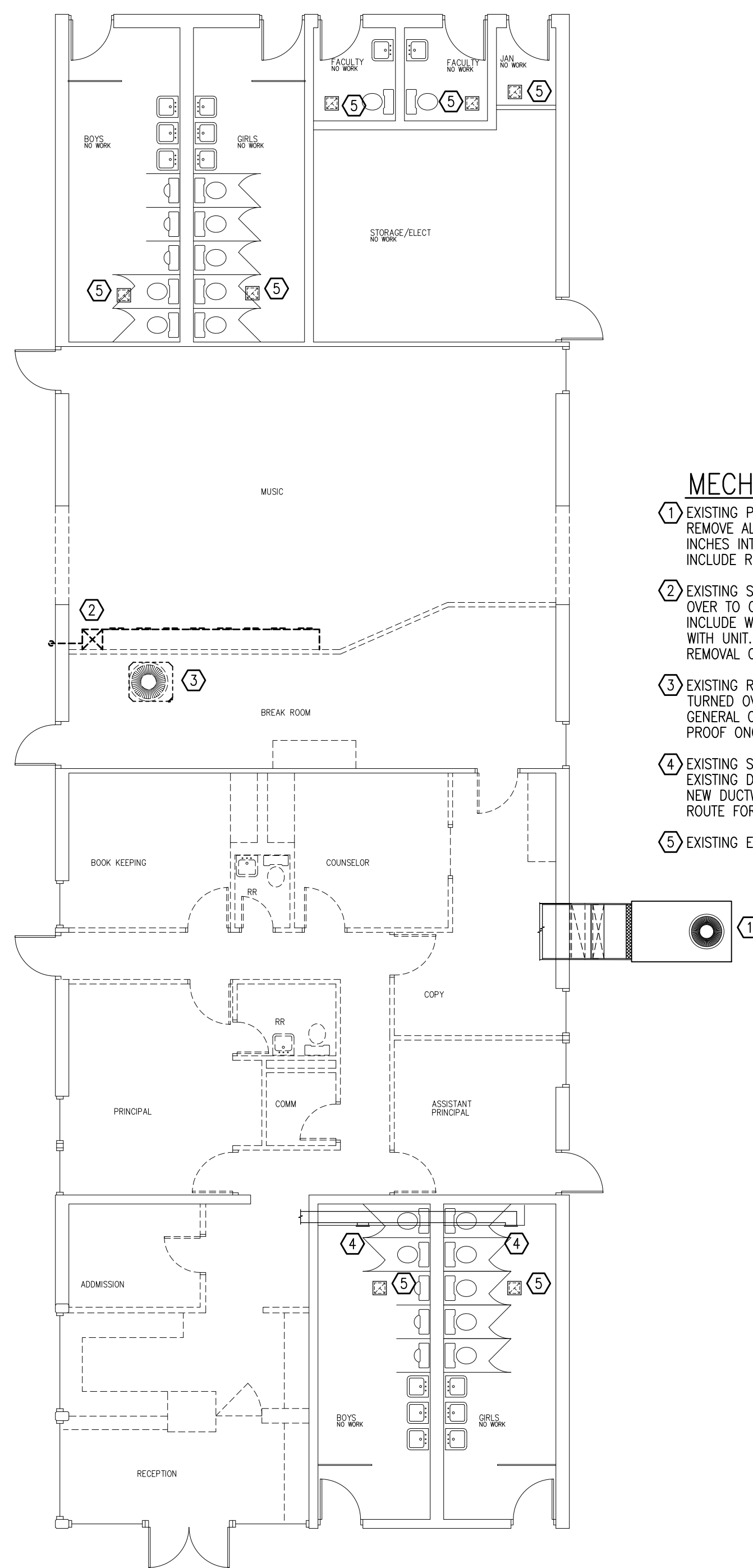


H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS // EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
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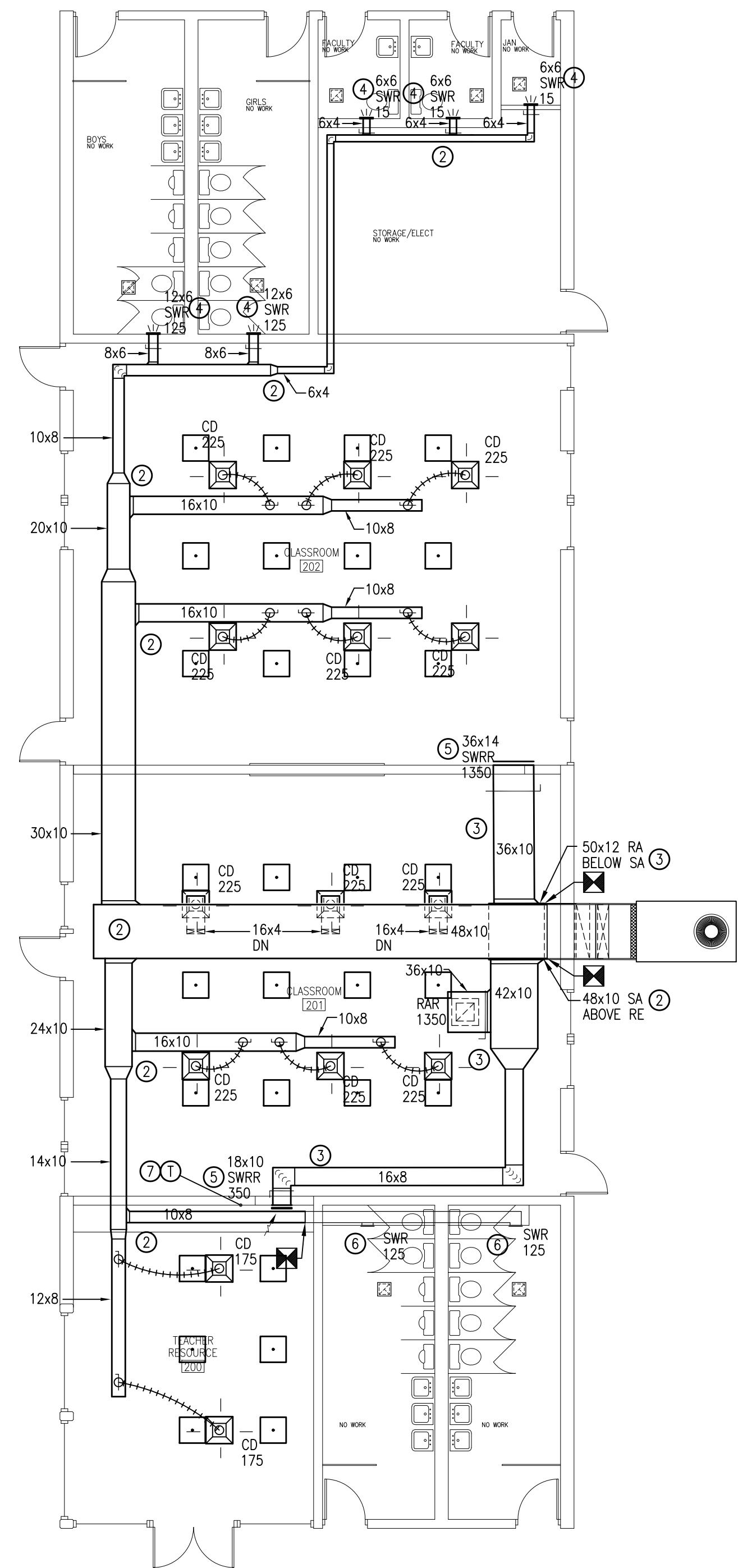
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M1.1



MECHANICAL DEMOLITION KEY NOTES:

- ① EXISTING PAD MOUNTED PACKAGED AIR CONDITIONING UNIT TO REMAIN. REMOVE ALL INTERIOR DUCTWORK, UNLESS STATED OTHERWISE, UP TO 12 INCHES INTERIOR OF THE BUILDING. REMOVAL OF DUCTWORK SHALL INCLUDE REMOVAL OF ASSOCIATED DIFFUSERS.
- ② EXISTING SPLIT SYSTEM AIR HANDLING UNIT TO BE REMOVED AND TURNED OVER TO OWNER. REMOVE ALL ASSOCIATED DUCTWORK AND AIR DEVICES. INCLUDE WITH REMOVAL ALL WIRING, CONTROLS, AND PIPING ASSOCIATED WITH UNIT. SEAL WALL PENETRATION AIR TIGHT AND RODENT PROOF WITH REMOVAL OF CONDENSATE DRAIN LINE.
- ③ EXISTING ROOF MOUNTED CONDENSING UNIT SHALL BE REMOVED AND TURNED OVER TO OWNER. MECHANICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR FOR HAVING ROOF REPAIRED AND SEALED WATER PROOF ONCE EQUIPMENT REMOVAL IS COMPLETE.
- ④ EXISTING SIDEWALL REGISTERS SHALL REMAIN FOR REUSE WITH ASSOCIATED EXISTING DUCTWORK. PREPARE REMAINING DUCTWORK FOR CONNECTION TO NEW DUCTWORK. MECHANICAL CONTRACTOR SHALL VERIFY DUCTWORK ROUTE FOR CONNECTION TO NEW DUCT WORK.
- ⑤ EXISTING EXHAUST FAN TO REMAIN.

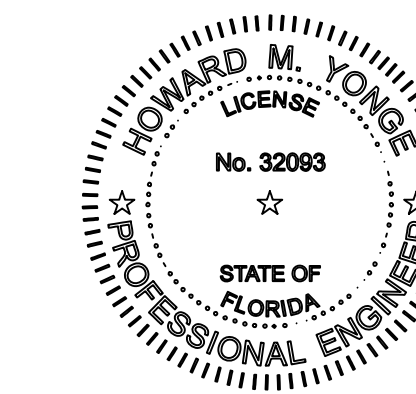
Mechanical Demolition Plan
1/8"=1'-0" BUILDING 2



MECHANICAL NEW WORK KEY NOTES:

- ① EXISTING PAD MOUNTED PACKAGED AIR CONDITIONING UNIT TO REMAIN. MECHANICAL CONTRACTOR TO VERIFY DUCTWORK SIZE AND ROUTING PRIOR TO BEGINNING ANY WORK. MECHANICAL CONTRACTOR TO PROVIDE MAINTENANCE SERVICE ON UNIT. SUPPORT A WRITTEN REPORT TO OWNER/ARCHITECT OUTLINING ANY DEFICIENCIES WITH ASSOCIATED COST OF REPAIR.
- ② SUPPLY AIR DUCT SHALL CONNECT TO EXISTING DUCTWORK AT EXTERIOR WALL PENETRATION. SUPPLY DUCT SHALL BE ROUTED ABOVE RETURN AIR DUCT. SUPPLY DUCT SHALL BE ROUTED HIGH BETWEEN BEAMS OVER TO DUCT CHASE. SUPPLY DUCT SHALL BE ROUTED GENERALLY AS INDICATED AND OFFSET TO AVOID OBSTRUCTIONS AND INTERFERENCES. CONNECT AIR DEVICES TO TRUNK DUCT WITH BRANCH DUCT HAVING A MANUAL VOLUME DAMPER. BALANCE AIR DEVICES TO INDICATED AIR FLOW.
- ③ RETURN AIR DUCT SHALL CONNECT TO EXISTING DUCTWORK AT EXTERIOR WALL PENETRATION. RETURN DUCT SHALL BE ROUTED BELOW SUPPLY AIR DUCT. RETURN AIR DUCT SHALL BRANCH IN DUCT CHASE. RETURN DUCT SHALL BE ROUTED GENERALLY AS INDICATED AND OFFSET TO AVOID OBSTRUCTIONS AND INTERFERENCES. CONNECT AIR DEVICES TO TRUNK DUCT WITH BRANCH DUCT HAVING A MANUAL VOLUME DAMPER. BALANCE AIR DEVICES TO INDICATED AIR FLOW.
- ④ SIDEWALL SUPPLY REGISTER SHALL BE MOUNTED HIGH IN WALL.
- ⑤ SIDEWALL RETURN REGISTER SHALL BE MOUNTED HIGH IN WALL.
- ⑥ EXISTING SIDEWALL SUPPLY REGISTERS SHALL REMAIN. BALANCE MANUAL VOLUME DAMPERS TO INDICATED AIR FLOW. CONNECT NEW DUCTWORK TO EXISTING. MECHANICAL CONTRACTOR TO VERIFY DUCT SIZE PRIOR TO BEGINNING ANY WORK.
- ⑦ NEW WALL MOUNTED TEMPERATURE CONTROLLER. WALL MOUNTED TEMPERATURE CONTROLLER TO BE SEVEN DAY PROGRAMMABLE WITH DIGITAL DISPLAY, MODE SELECTION, OCCUPIED/UNOCCUPIED SCHEDULING, AUTOMATIC CHANGE OVER AND BATTERY BACK-UP. ADDITIONALLY, TEMPERATURE CONTROLLER SHALL HAVE CONTACTS FOR CONTROL OF AUXILIARY EQUIPMENT.

Mechanical New Work Plan
1/8"=1'-0" BUILDING 2



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Sheet No.
M1.2

| MARK AHU | AREA SERVED | NOMINAL TONNAGE | AHU DATA | | | | | AHU ELECTRICAL DATA | | | | | AHU COOLING CAPACITY @ ARI STANDARD CONDITIONS | | | HPU HEATING CAPACITY @ ARI STANDARD CONDITIONS | | | SEER | COMPR. RLA | OUTDOOR FAN FLA. | HPU ELECTRICAL DATA | | | | | REMARKS | | | |
|----------|-------------------|-----------------|-----------|--------|------|-----------|---------|---------------------|----|-------|-----|------|--|--------|------------|--|-----------------|--------|------|------------|------------------|---------------------|--------------|-------|-----|-------|---------|------|------|-----------|
| | | | TOTAL CFM | OA CFM | ESP | MOTOR FLA | HEAT KW | VOLTS | Hz | PHASE | MCA | MOCP | EDB °F | EWB °F | AMBIENT °F | TOTAL BTU/HR | SENSIBLE BTU/HR | EDB °F | | | | AMBIENT °F | TOTAL BTU/HR | VOLTS | Hz | PHASE | | MCA | MOCP | |
| AHU#1 | CLASSROOM 109 | 4 TONS | 1400 | 125 | 0.5" | 6.0 | 10.8 | 208 | 60 | 3 | 44 | 45 | 80 | 67 | 95 | 48,000 | 33,600 | 70 | 47 | 45,600 | 15.0 | 1 | 12.2 | 2.80 | 208 | 60 | 3 | 18.1 | 30 | (1)(2)(3) |
| AHU#2 | HALLWAYS | 3 TONS | 1085 | 125 | 0.5" | 3.9 | 10.8 | 208 | 60 | 3 | 42 | 45 | 80 | 67 | 95 | 36,000 | 25,200 | 70 | 47 | 34,200 | 15.0 | 1 | 12.8 | 0.64 | 208 | 60 | 3 | 16.6 | 25 | (1)(2)(3) |
| AHU#3 | CLASSROOM 113 | 4 TONS | 1475 | 125 | 0.5" | 6.0 | 10.8 | 208 | 60 | 3 | 44 | 45 | 80 | 67 | 95 | 48,000 | 33,600 | 70 | 47 | 45,600 | 15.0 | 1 | 12.2 | 2.80 | 208 | 60 | 3 | 18.1 | 30 | (1)(2)(3) |
| AHU#4 | SOUTHWEST OFFICES | 3 TONS | 1150 | 125 | 0.5" | 3.9 | 10.8 | 208 | 60 | 3 | 42 | 45 | 80 | 67 | 95 | 36,000 | 25,200 | 70 | 47 | 34,200 | 15.0 | 1 | 12.8 | 0.64 | 208 | 60 | 3 | 16.6 | 25 | (1)(2)(3) |
| AHU#5 | SOUTHEAST OFFICES | 3 TONS | 1015 | 125 | 0.5" | 3.9 | 10.8 | 208 | 60 | 3 | 42 | 45 | 80 | 67 | 95 | 36,000 | 25,200 | 70 | 47 | 34,200 | 15.0 | 1 | 12.8 | 0.64 | 208 | 60 | 3 | 16.6 | 25 | (1)(2)(3) |

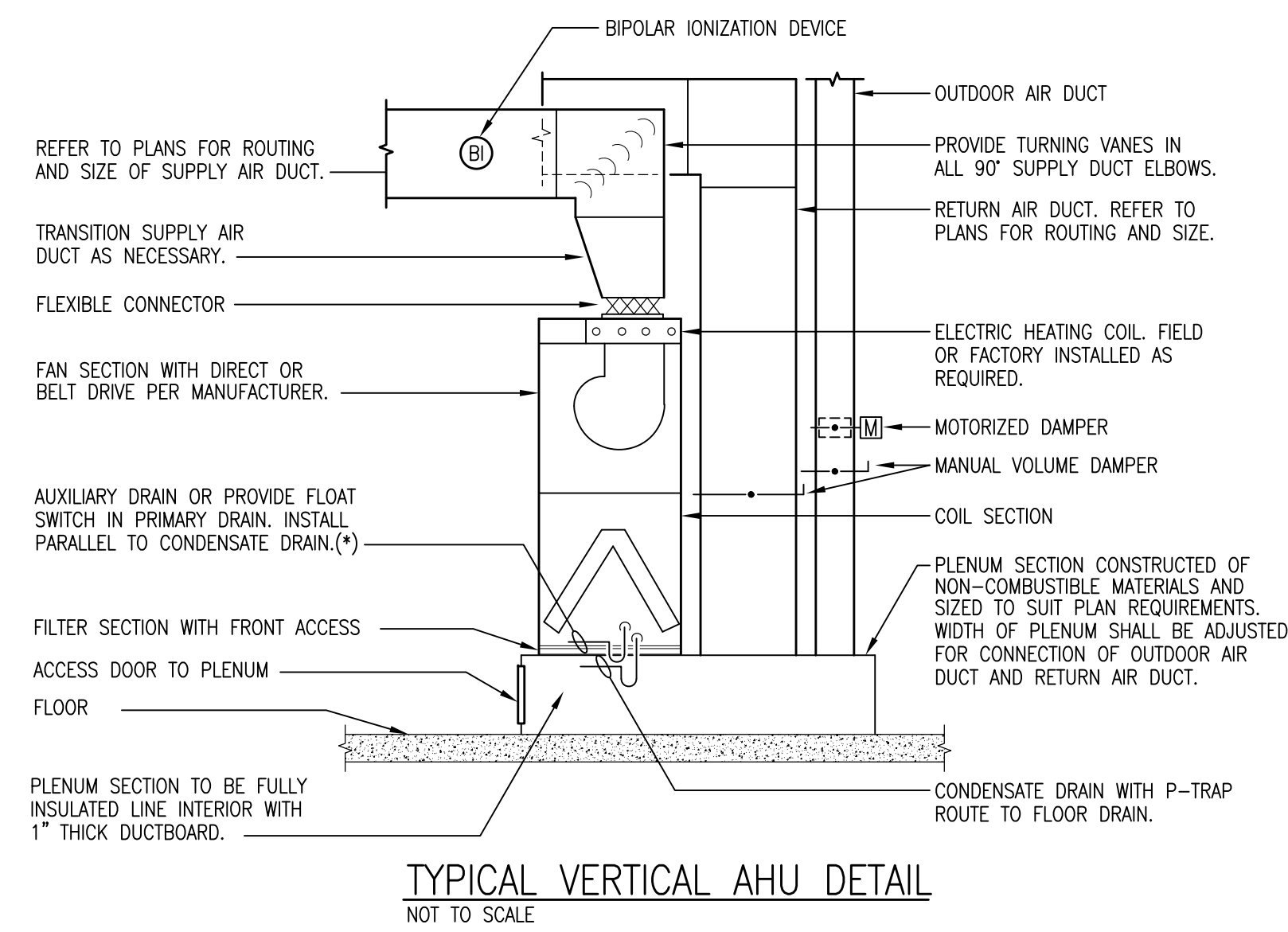
- NOTES:
 ① THE HEAT PUMP SHALL OPERATE AS STAGE 1 HEATING, THE ELECTRIC STRIP HEAT SHALL OPERATE AS STAGE 2 HEATING AND DEFROST CYCLE. DURING STAGE 2 HEATING, THE COMPRESSOR AND THE ELECTRIC STRIP HEAT SHALL OPERATE SIMULTANEOUSLY.
 ② PROVIDE SINGLE POINT CONNECTION FOR AIR HANDLING UNIT BLOWER AND STRIP HEAT.
 ③ BASIS OF DESIGN - TRANE 5TEM4B0 SPLIT SYSTEM AIR HANDLER 3-4 TON (208V, 60hz, 3ø) & 5TW5 HEAT PUMP 3-4 TON (208V, 60hz, 3ø).

| MARK | CFM | MAX. NC | AIR DEVICE SIZE | DUCT CONNECTION SIZE | REMARKS (TYPE) |
|---------|---------|---------|-----------------|----------------------|----------------|
| 0-75 | 0-75 | 25 | 6"x6" | 6"ø | CD |
| 76-150 | 76-150 | 25 | 9"x6" | 7"ø | CD |
| 151-200 | 151-200 | 25 | 9"x9" | 8"ø | CD |
| 201-225 | 201-225 | 25 | 9"x9" | 9"ø | CD |
| --- | --- | --- | --- | --- | --- |
| 0-150 | 0-150 | 25 | 8"x8" | SEE PLANS | RAR |
| 151-450 | 151-450 | 25 | 12"x12" | SEE PLANS | RAR |
| 451-600 | 451-600 | 25 | 14"x14" | SEE PLANS | RAR |
| 601-610 | 601-610 | 25 | 18"x18" | SEE PLANS | RAR |

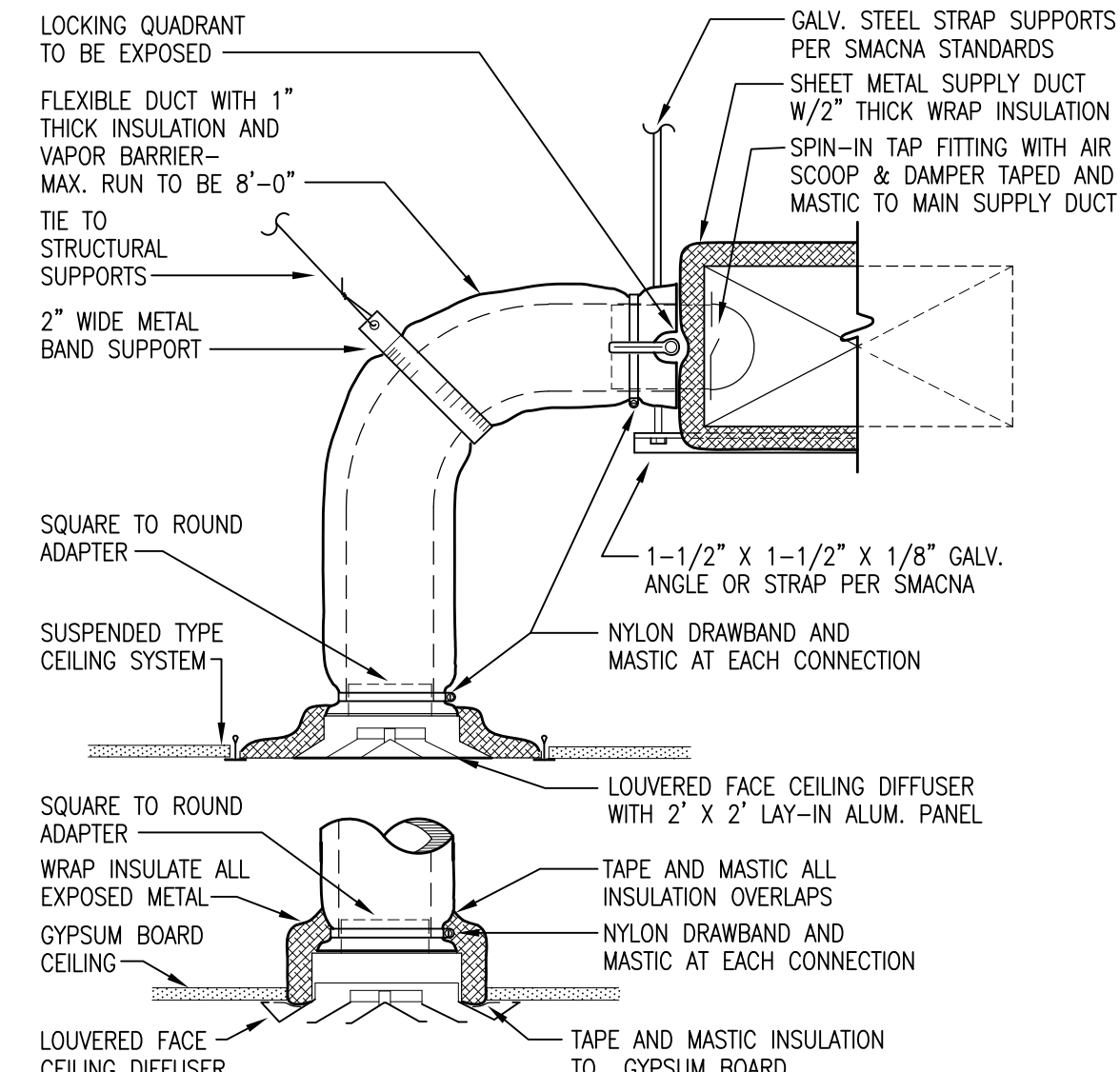
- NOTES:
 1. PROVIDE 24"x24" PANEL FOR ALL AIR DEVICES IN LAY-IN CEILING.
 2. PROVIDE DUCT CONNECTION SIZE SHOWN UNLESS OTHERWISE NOTED ON PLANS.
 3. AIR DEVICE SIZES SHOWN ON PLANS TAKE PRECEDENCE OVER THIS SCHEDULE.

| MARK | TOTAL CFM | TSP IN WC | MAX RPM | TYPE DRIVE | TYPE FAN | INTERLOCK WITH | MOTOR HP/WATTS | MAX SONES | ELECTRICAL DATA | | | FAN SERVICE | REMARKS |
|------|-----------|-----------|---------|------------|-----------------|----------------|----------------|-----------|-----------------|----|-------|-------------|-----------------|
| | | | | | | | | | VOLTS | Hz | PHASE | | |
| EF#1 | 70 | 0.25 | 703 | DIRECT | CEILING MOUNTED | LIGHT SWITCH | 80 W | 0.4 | 120 | 60 | 1 | MENS 121 | (1)(2)(3)(4)(5) |
| EF#2 | 70 | 0.25 | 703 | DIRECT | CEILING MOUNTED | LIGHT SWITCH | 80 W | 0.4 | 120 | 60 | 1 | WOMENS 122 | (1)(2)(3)(4)(5) |
| EF#3 | 70 | 0.25 | 703 | DIRECT | CEILING MOUNTED | LIGHT SWITCH | 80 W | 0.4 | 120 | 60 | 1 | JANITOR 123 | (1)(2)(3)(4)(5) |
| EF#4 | 70 | 0.25 | 703 | DIRECT | CEILING MOUNTED | LIGHT SWITCH | 80 W | 0.4 | 120 | 60 | 1 | RR 111 | (1)(2)(3)(4)(5) |
| EF#5 | 70 | 0.25 | 703 | DIRECT | CEILING MOUNTED | LIGHT SWITCH | 80 W | 0.4 | 120 | 60 | 1 | RR 112 | (1)(2)(3)(4)(5) |

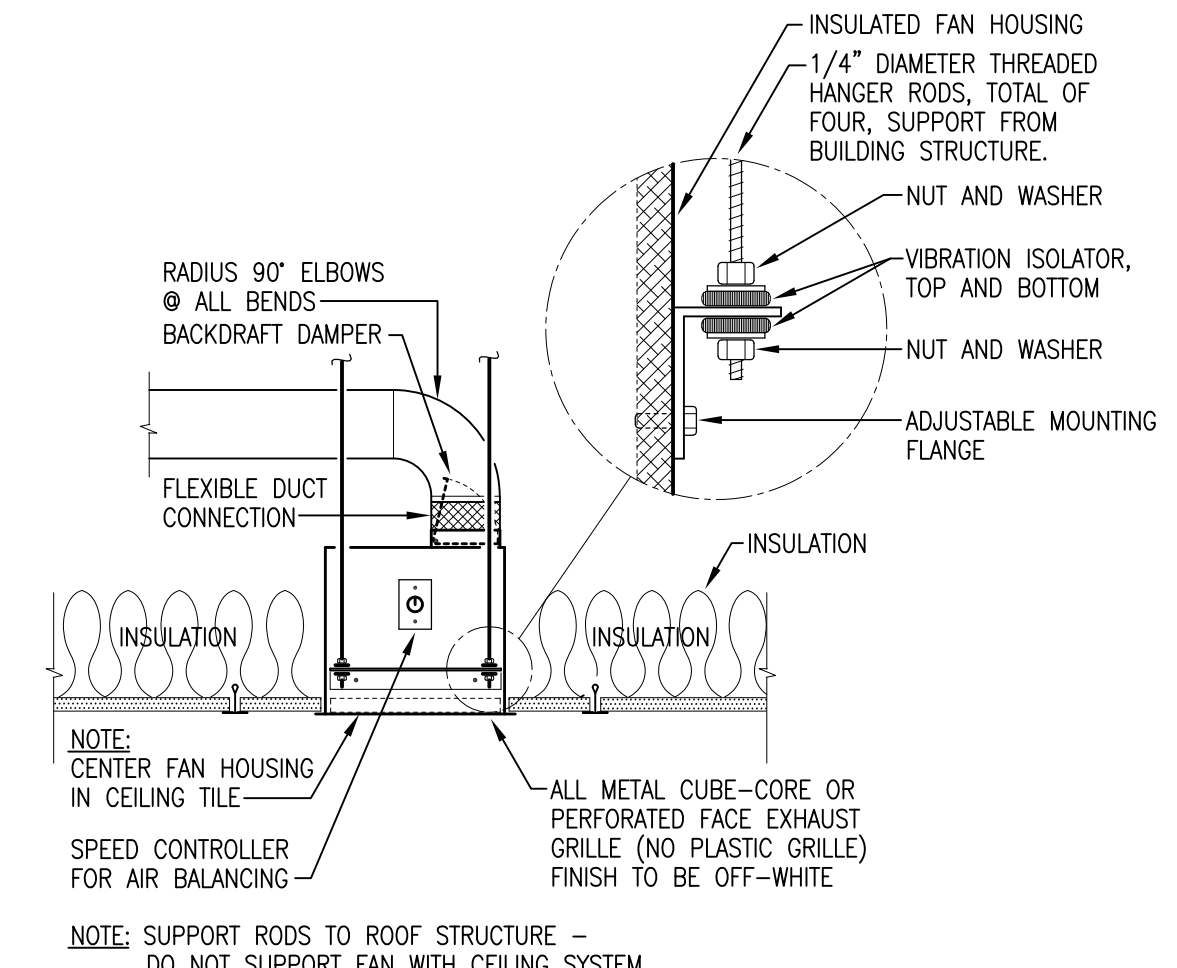
- NOTES:
 ① PROVIDE WITH FAN SPEED CONTROLLER
 ② PROVIDE WITH ALUMINUM GRILLE.
 ③ PROVIDE WITH ROUND TO RECTANGULAR TRANSITION.
 ④ PROVIDE WITH INTEGRAL DISCONNECT.
 ⑤ PROVIDE WITH THERMAL OVERLOAD.



TYPICAL VERTICAL AHU DETAIL
NOT TO SCALE



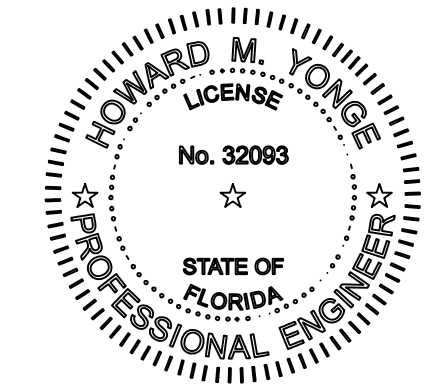
TYPICAL CEILING DIFFUSER DETAIL
NOT TO SCALE



TYPICAL EXHAUST FAN DETAIL
NOT TO SCALE

| MECHANICAL LEGEND | |
|-------------------|---|
| AHU | AIR HANDLING UNIT |
| CD | CEILING DIFFUSER |
| CFM | CUBIC FEET PER MINUTE |
| EF | EXHAUST FAN |
| ER | EXHAUST REGISTER |
| MVD | MANUAL VOLUME DAMPER |
| OA | OUTDOOR AIR |
| RA | RETURN AIR |
| RAR | RETURN AIR REGISTER |
| SA | SUPPLY AIR |
| | CEILING DIFFUSER WITH THROW INDICATION |
| | EXHAUST/RETURN AIR DEVICE |
| | FLEXIBLE DUCT |
| | DUCTWORK (DIMENSIONS: WIDTH X HEIGHT) |
| | FLEX DUCT TAKE-OFF WITH AIR-SCOOP, SPIN-IN TAP AND BALANCING DAMPER |
| | ELBOW WITH TURNING VANES |
| | BULLHEAD TEE WITH TURNING VANES AND SPLITTER DAMPER |
| | 45° SHOE-FITTING TAKE-OFF |
| | DUCT CONNECTION OVER AIR DEVICE |
| | RETURN AIR DUCT IN SECTION |
| | SUPPLY AIR DUCT IN SECTION |
| | MOTORIZED DAMPER |
| | THERMOSTAT WITH EQUIPMENT # SERVED MOUNT 54" A.F.F. TO CENTER |
| | 5/8" DOOR UNDERCUT |
| | MANUAL VOLUME DAMPER |

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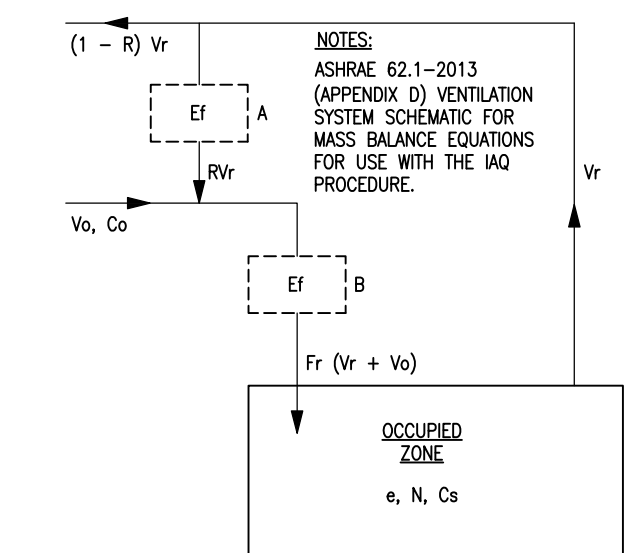


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OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE - 2021 IMC

| ZONE TAG | FACILITY TYPE | ZONE USE | ZONE FLOOR AREA (SF) Az | ZONE MAX OCCUPANCY Rp | TABLE 6.1 OA/person (Rp) | TABLE 6.1 cfm/h2 (Ra) | Pz*Rp | Az*Ra | TABLE 6.2 VENTILATION EFF. (Ez) | ZONE OA (CFM) |
|------------------------|------------------------|----------------------|-------------------------|-----------------------|--------------------------|-----------------------|-------------------|-------|---------------------------------|---------------|
| AHU#1 | EDUCATIONAL FACILITIES | OFFICE SPACE | 974 (4) | 20 | 10.0 | 0.12 | 200 | 117 | 0.8 | 396 (3) |
| ZONE HEIGHT (FT) | | 10 | AIR CHANGES/HOUR | | 8.6 | | | | | |
| DESIRED OA (Vo) IAQ | | 125 | OA PER VRP | | 396 CFM | | VRP OA CFM/PERSON | | 19.8 | |
| MAX/MIN SA (Vs) | | 1400 | OA PER IAQ | | 125 CFM | | IAQ OA CFM/PERSON | | 6.3 | |
| RETURN AIR (Vr) | | 1275 | OA SAVINGS | | 271 CFM | | | | | |
| RECIRC. FLOW FACTOR(R) | | 0.91 | OA DRY BULB | | 95 °F | | | | | |
| VENT. EFF. (Ez) | | 0.8 | OA WET BULB | | 80 °F | | | | | |
| PHYSICAL ACTIVITY | | STANDING (DESK WORK) | COIL LVG. DRY BULB | | 55 °F | | | | | |
| FILTER LOCATION | | B | COIL LVG. WET BULB | | 54 °F | | | | | |
| HVAC FLOW TYPE | | CONSTANT | | | | | | | | |
| OA FLOW TYPE | | CONSTANT | | | | | | | | |

| CONTAMINANT OF CONCERN | CONTAMINANT SOURCE | MAXIMUM THRESHOLD VALUE (PPM) | STEADY STATE USING VRP | STEADY STATE USING IAQ | STEADY STATE LEVEL OK @ REDUCED OA? |
|---|--------------------|-------------------------------|------------------------|------------------------|-------------------------------------|
| ACETALDEHYDE | PEOPLE | 100 | 0.01112 | 0.00092 | YES |
| ACETONE | PEOPLE | 250 | 0.00168 | 0.00032 | YES |
| AMMONIA | PEOPLE | 25 | 0.01527 | 0.00718 | YES |
| BENZENE | PEOPLE | 1 | 0.00252 | 0.00021 | YES |
| 2-BUTANONE (MEK) | PEOPLE | 200 | 0.00019 | 0.00005 | YES |
| CARBON DIOXIDE | PEOPLE | 5000 | 1006 | 2322 | YES |
| CHLOROFORM | PEOPLE | 2 | 0.00011 | 0.00001 | YES |
| DIOXANE | PEOPLE | 100 | 0 | 0 | YES |
| HYDROGEN SULFIDE | PEOPLE | 10 | 0 | 0 | YES |
| METHANE | PEOPLE | N/A | 1.68094 | 1.68094 | YES |
| METHANOL | PEOPLE | 200 | 0 | 0 | YES |
| METHYLENE CHLORIDE | PEOPLE | 25 | 0.00077 | 0.00010 | YES |
| PROPANE | PEOPLE | 1000 | 0.00998 | 0.00998 | YES |
| TETRACHLOROETHANE | PEOPLE | 5 | 0 | 0 | YES |
| TETRACHLOROETHYLENE | PEOPLE | 100 | 0.00037 | 0.00003 | YES |
| TOLUENE | PEOPLE | 100 | 0.00533 | 0.00045 | YES |
| TRICHLOROETHANE | PEOPLE | 350 | 0.00077 | 0.00008 | YES |
| XYLENE | PEOPLE | 100 | 0.00230 | 0.00019 | YES |
| IS IAQ ACCEPTABLE AT REDUCED OA LEVELS? | | | | | YES |



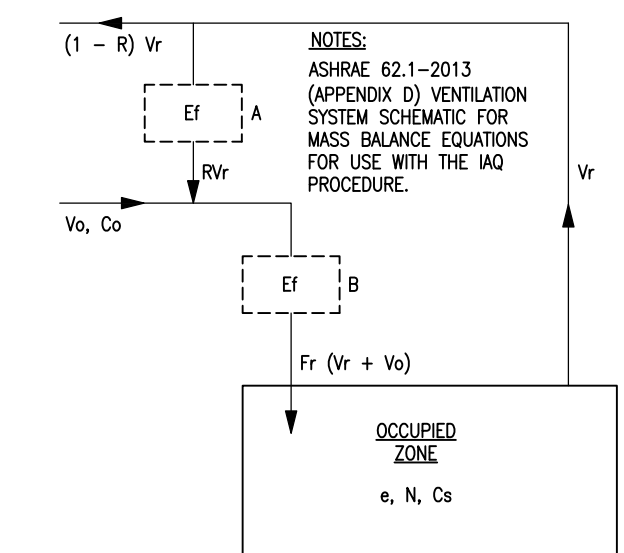
- IAQ PROCEDURE IN ACCORDANCE WITH THE ENGINEERED EXCEPTION FOUND IN IMC, SECTION 403.2 AND IN ACCORDANCE WITH ASHRAE 62.1-2013, SECTION 6.1.2 & 6.3 BY UTILIZING BIPOLAR IONIZATION TECHNOLOGY.
- ALL VALUES LISTED IN PARTS PER MILLION (PPM), UNLESS OTHERWISE NOTED.
- OUTSIDE AIR REQUIRED PER VENTILATION RATE PROCEDURE (VRP).
- OUTSIDE AIR IAQ CALCULATION FOR TOTAL DISPLAY AREA.

NOTE: OWNER HAS BEEN ADVISED REGARDING THE USE OF BI-POLAR AIR PURIFICATION DEVICES.
NOTE: AIR PURIFICATION DEVICES SHALL BE INTERLOCKED WITH EVAPORATOR SECTION TO BE OPERATION ONLY AS EVAPORATOR SECTION IS OPERATING.
NOTE: MAX REQUIRED

OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE - 2021 IMC

| ZONE TAG | FACILITY TYPE | ZONE USE | ZONE FLOOR AREA (SF) Az | ZONE MAX OCCUPANCY Rp | TABLE 6.1 OA/person (Rp) | TABLE 6.1 cfm/h2 (Ra) | Pz*Rp | Az*Ra | TABLE 6.2 VENTILATION EFF. (Ez) | ZONE OA (CFM) |
|------------------------|------------------------|----------------------|-------------------------|-----------------------|--------------------------|-----------------------|-------------------|-------|---------------------------------|---------------|
| AHU#2 | EDUCATIONAL FACILITIES | OFFICE SPACE | 1376 (4) | 20 | 5.0 | 0.06 | 100 | 83 | 0.8 | 228 (3) |
| ZONE HEIGHT (FT) | | 10 | AIR CHANGES/HOUR | | 4.7 | | | | | |
| DESIRED OA (Vo) IAQ | | 125 | OA PER VRP | | 228 | | VRP OA CFM/PERSON | | 11.4 | |
| MAX/MIN SA (Vs) | | 1085 | OA PER IAQ | | 125 CFM | | IAQ OA CFM/PERSON | | 6.3 | |
| RETURN AIR (Vr) | | 960 | OA SAVINGS | | 103 CFM | | | | | |
| RECIRC. FLOW FACTOR(R) | | 0.88 | OA DRY BULB | | 95 °F | | | | | |
| VENT. EFF. (Ez) | | 0.8 | OA WET BULB | | 80 °F | | | | | |
| PHYSICAL ACTIVITY | | STANDING (DESK WORK) | COIL LVG. DRY BULB | | 55 °F | | | | | |
| FILTER LOCATION | | B | COIL LVG. WET BULB | | 54 °F | | | | | |
| HVAC FLOW TYPE | | CONSTANT | | | | | | | | |
| OA FLOW TYPE | | CONSTANT | | | | | | | | |

| CONTAMINANT OF CONCERN | CONTAMINANT SOURCE | MAXIMUM THRESHOLD VALUE (PPM) | STEADY STATE USING VRP | STEADY STATE USING IAQ | STEADY STATE LEVEL OK @ REDUCED OA? |
|---|--------------------|-------------------------------|------------------------|------------------------|-------------------------------------|
| ACETALDEHYDE | PEOPLE | 100 | 0.01114 | 0.00117 | YES |
| ACETONE | PEOPLE | 250 | 0.00198 | 0.00040 | YES |
| AMMONIA | PEOPLE | 25 | 0.02524 | 0.00905 | YES |
| BENZENE | PEOPLE | 1 | 0.00253 | 0.00027 | YES |
| 2-BUTANONE (MEK) | PEOPLE | 200 | 0.00025 | 0.00007 | YES |
| CARBON DIOXIDE | PEOPLE | 5000 | 1452 | 2322 | YES |
| CHLOROFORM | PEOPLE | 2 | 0.00011 | 0.00001 | YES |
| DIOXANE | PEOPLE | 100 | 0 | 0 | YES |
| HYDROGEN SULFIDE | PEOPLE | 10 | 0 | 0 | YES |
| METHANE | PEOPLE | N/A | 1.68094 | 1.68094 | YES |
| METHANOL | PEOPLE | 200 | 0 | 0 | YES |
| METHYLENE CHLORIDE | PEOPLE | 25 | 0.00082 | 0.00012 | YES |
| PROPANE | PEOPLE | 1000 | 0.00998 | 0.00998 | YES |
| TETRACHLOROETHANE | PEOPLE | 5 | 0 | 0 | YES |
| TETRACHLOROETHYLENE | PEOPLE | 100 | 0.00037 | 0.00004 | YES |
| TOLUENE | PEOPLE | 100 | 0.00534 | 0.00056 | YES |
| TRICHLOROETHANE | PEOPLE | 350 | 0.00080 | 0.00010 | YES |
| XYLENE | PEOPLE | 100 | 0.00230 | 0.00024 | YES |
| IS IAQ ACCEPTABLE AT REDUCED OA LEVELS? | | | | | YES |



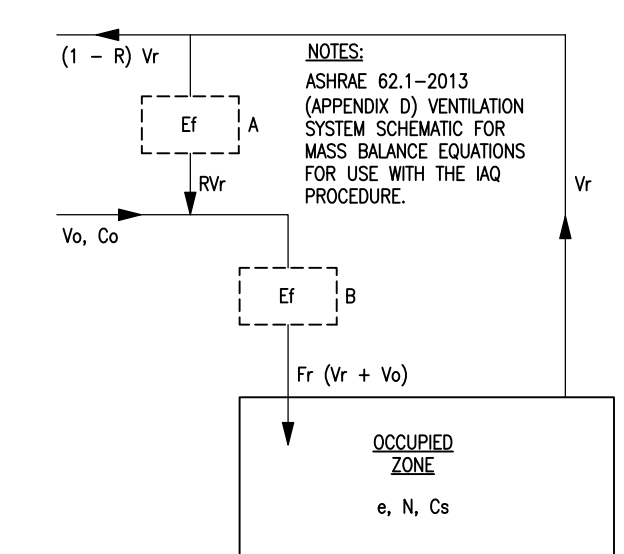
- IAQ PROCEDURE IN ACCORDANCE WITH THE ENGINEERED EXCEPTION FOUND IN IMC, SECTION 403.2 AND IN ACCORDANCE WITH ASHRAE 62.1-2013, SECTION 6.1.2 & 6.3 BY UTILIZING BIPOLAR IONIZATION TECHNOLOGY.
- ALL VALUES LISTED IN PARTS PER MILLION (PPM), UNLESS OTHERWISE NOTED.
- OUTSIDE AIR REQUIRED PER VENTILATION RATE PROCEDURE (VRP).
- OUTSIDE AIR IAQ CALCULATION FOR TOTAL DISPLAY AREA.

NOTE: OWNER HAS BEEN ADVISED REGARDING THE USE OF BI-POLAR AIR PURIFICATION DEVICES.
NOTE: AIR PURIFICATION DEVICES SHALL BE INTERLOCKED WITH EVAPORATOR SECTION TO BE OPERATION ONLY AS EVAPORATOR SECTION IS OPERATING.
NOTE: MAX REQUIRED

OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE - 2021 IMC

| ZONE TAG | FACILITY TYPE | ZONE USE | ZONE FLOOR AREA (SF) Az | ZONE MAX OCCUPANCY Rp | TABLE 6.1 OA/person (Rp) | TABLE 6.1 cfm/h2 (Ra) | Pz*Rp | Az*Ra | TABLE 6.2 VENTILATION EFF. (Ez) | ZONE OA (CFM) |
|------------------------|------------------------|----------------------|-------------------------|-----------------------|--------------------------|-----------------------|-------------------|-------|---------------------------------|---------------|
| AHU#5 | EDUCATIONAL FACILITIES | OFFICE SPACE | 896 (4) | 20 | 5.0 | 0.06 | 100 | 54 | 0.8 | 192 (3) |
| ZONE HEIGHT (FT) | | 10 | AIR CHANGES/HOUR | | 6.8 | | | | | |
| DESIRED OA (Vo) IAQ | | 125 | OA PER VRP | | 192 CFM | | VRP OA CFM/PERSON | | 9.6 | |
| MAX/MIN SA (Vs) | | 1015 | OA PER IAQ | | 125 CFM | | IAQ OA CFM/PERSON | | 6.3 | |
| RETURN AIR (Vr) | | 890 | OA SAVINGS | | 67 CFM | | | | | |
| RECIRC. FLOW FACTOR(R) | | 0.88 | OA DRY BULB | | 95 °F | | | | | |
| VENT. EFF. (Ez) | | 0.8 | OA WET BULB | | 80 °F | | | | | |
| PHYSICAL ACTIVITY | | STANDING (DESK WORK) | COIL LVG. DRY BULB | | 55 °F | | | | | |
| FILTER LOCATION | | B | COIL LVG. WET BULB | | 54 °F | | | | | |
| HVAC FLOW TYPE | | CONSTANT | | | | | | | | |
| OA FLOW TYPE | | CONSTANT | | | | | | | | |

| CONTAMINANT OF CONCERN | CONTAMINANT SOURCE | MAXIMUM THRESHOLD VALUE (PPM) | STEADY STATE USING VRP | STEADY STATE USING IAQ | STEADY STATE LEVEL OK @ REDUCED OA? |
|---|--------------------|-------------------------------|------------------------|------------------------|-------------------------------------|
| ACETALDEHYDE | PEOPLE | 100 | 0.01115 | 0.00124 | YES |
| ACETONE | PEOPLE | 250 | 0.00211 | 0.00043 | YES |
| AMMONIA | PEOPLE | 25 | 0.02964 | 0.00960 | YES |
| BENZENE | PEOPLE | 1 | 0.00253 | 0.00028 | YES |
| 2-BUTANONE (MEK) | PEOPLE | 200 | 0.00028 | 0.00007 | YES |
| CARBON DIOXIDE | PEOPLE | 5000 | 1649 | 2322 | YES |
| CHLOROFORM | PEOPLE | 2 | 0.00011 | 0.00001 | YES |
| DIOXANE | PEOPLE | 100 | 0 | 0 | YES |
| HYDROGEN SULFIDE | PEOPLE | 10 | 0 | 0 | YES |
| METHANE | PEOPLE | N/A | 1.68094 | 1.68094 | YES |
| METHANOL | PEOPLE | 200 | 0 | 0 | YES |
| METHYLENE CHLORIDE | PEOPLE | 25 | 0.00085 | 0.00013 | YES |
| PROPANE | PEOPLE | 1000 | 0.00998 | 0.00998 | YES |
| TETRACHLOROETHANE | PEOPLE | 5 | 0 | 0 | YES |
| TETRACHLOROETHYLENE | PEOPLE | 100 | 0.00037 | 0.00004 | YES |
| TOLUENE | PEOPLE | 100 | 0.00535 | 0.00060 | YES |
| TRICHLOROETHANE | PEOPLE | 350 | 0.00081 | 0.00011 | YES |
| XYLENE | PEOPLE | 100 | 0.00230 | 0.00025 | YES |
| IS IAQ ACCEPTABLE AT REDUCED OA LEVELS? | | | | | YES |



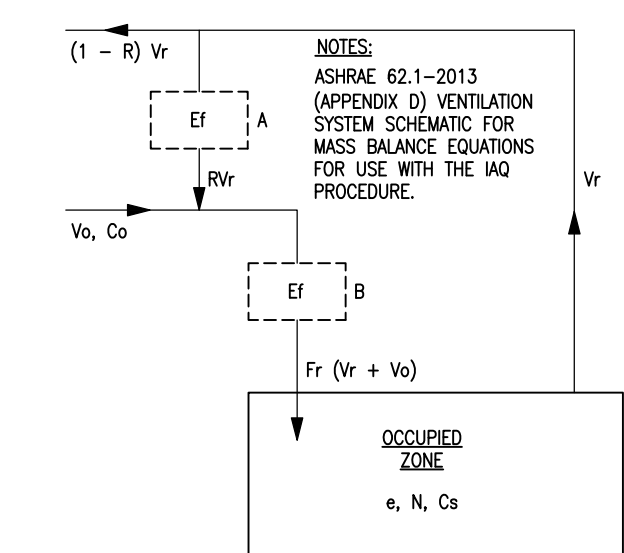
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- ALL VALUES LISTED IN PARTS PER MILLION (PPM), UNLESS OTHERWISE NOTED.
- OUTSIDE AIR REQUIRED PER VENTILATION RATE PROCEDURE (VRP).
- OUTSIDE AIR IAQ CALCULATION FOR TOTAL DISPLAY AREA.

NOTE: OWNER HAS BEEN ADVISED REGARDING THE USE OF BI-POLAR AIR PURIFICATION DEVICES.
NOTE: AIR PURIFICATION DEVICES SHALL BE INTERLOCKED WITH EVAPORATOR SECTION TO BE OPERATION ONLY AS EVAPORATOR SECTION IS OPERATING.
NOTE: MAX REQUIRED

OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE - 2021 IMC

| ZONE TAG | FACILITY TYPE | ZONE USE | ZONE FLOOR AREA (SF) Az | ZONE MAX OCCUPANCY Rp | TABLE 6.1 OA/person (Rp) | TABLE 6.1 cfm/h2 (Ra) | Pz*Rp | Az*Ra | TABLE 6.2 VENTILATION EFF. (Ez) | ZONE OA (CFM) |
|------------------------|------------------------|----------------------|-------------------------|-----------------------|--------------------------|-----------------------|-------------------|-------|---------------------------------|---------------|
| AHU#3 | EDUCATIONAL FACILITIES | CLASSROOMS (AGE 9+) | 956 (4) | 20 | 10.0 | 0.12 | 200 | 115 | 0.8 | 393 (3) |
| ZONE HEIGHT (FT) | | 20 | AIR CHANGES/HOUR | | 9.3 | | | | | |
| DESIRED OA (Vo) IAQ | | 125 | OA PER VRP | | 393 CFM | | VRP OA CFM/PERSON | | 19.7 | |
| MAX/MIN SA (Vs) | | 1475 | OA PER IAQ | | 125 CFM | | IAQ OA CFM/PERSON | | 6.3 | |
| RETURN AIR (Vr) | | 1350 | OA SAVINGS | | 268 CFM | | | | | |
| RECIRC. FLOW FACTOR(R) | | 0.92 | OA DRY BULB | | 95 °F | | | | | |
| VENT. EFF. (Ez) | | 0.8 | OA WET BULB | | 80 °F | | | | | |
| PHYSICAL ACTIVITY | | STANDING (DESK WORK) | COIL LVG. DRY BULB | | 55 °F | | | | | |
| FILTER LOCATION | | B | COIL LVG. WET BULB | | 54 °F | | | | | |
| HVAC FLOW TYPE | | CONSTANT | | | | | | | | |
| OA FLOW TYPE | | CONSTANT | | | | | | | | |

| CONTAMINANT OF CONCERN | CONTAMINANT SOURCE | MAXIMUM THRESHOLD VALUE (PPM) | STEADY STATE USING VRP | STEADY STATE USING IAQ | STEADY STATE LEVEL OK @ REDUCED OA? |
|---|--------------------|-------------------------------|------------------------|------------------------|-------------------------------------|
| ACETALDEHYDE | PEOPLE | 100 | 0.01112 | 0.00088 | YES |
| ACETONE | PEOPLE | 250 | 0.00168 | 0.00030 | YES |
| AMMONIA | PEOPLE | 25 | 0.01536 | 0.00684 | YES |
| BENZENE | PEOPLE | 1 | 0.00252 | 0.00020 | YES |
| 2-BUTANONE (MEK) | PEOPLE | 200 | 0.00019 | 0.00005 | YES |
| CARBON DIOXIDE | PEOPLE | 5000 | 1010 | 2322 | YES |
| CHLOROFORM | PEOPLE | 2 | 0.00011 | 0.00001 | YES |
| DIOXANE | PEOPLE | 100 | 0 | 0 | YES |
| HYDROGEN SULFIDE | PEOPLE | 10 | 0 | 0 | YES |
| METHANE | PEOPLE | N/A | 1.68094 | 1.68094 | YES |
| METHANOL | PEOPLE | 200 | 0 | 0 | YES |
| METHYLENE CHLORIDE | PEOPLE | 25 | 0.00077 | 0.00009 | YES |
| PROPANE | PEOPLE | 1000 | 0.00998 | 0.00998 | YES |
| TETRACHLOROETHANE | PEOPLE | 5 | 0 | 0 | YES |
| TETRACHLOROETHYLENE | PEOPLE | 100 | 0.00037 | 0.00003 | YES |
| TOLUENE | PEOPLE | 100 | 0.00533 | 0.00042 | YES |
| TRICHLOROETHANE | PEOPLE | 350 | 0.00077 | 0.00008 | YES |
| XYLENE | PEOPLE | 100 | 0.00230 | 0.00018 | YES |
| IS IAQ ACCEPTABLE AT REDUCED OA LEVELS? | | | | | YES |



- IAQ PROCEDURE IN ACCORDANCE WITH THE ENGINEERED EXCEPTION FOUND IN IMC, SECTION 403.2 AND IN ACCORDANCE WITH ASHRAE 62.1-2013, SECTION 6.1.2 & 6.3 BY UTILIZING BIPOLAR IONIZATION TECHNOLOGY.
- ALL VALUES LISTED IN PARTS PER MILLION (PPM), UNLESS OTHERWISE NOTED.
- OUTSIDE AIR REQUIRED PER VENTILATION RATE PROCEDURE (VRP).
- OUTSIDE AIR IAQ CALCULATION FOR TOTAL DISPLAY AREA.

NOTE: OWNER HAS BEEN ADVISED REGARDING THE USE OF BI-POLAR AIR PURIFICATION DEVICES.
NOTE: AIR PURIFICATION DEVICES SHALL BE INTERLOCKED WITH EVAPORATOR SECTION TO BE OPERATION ONLY AS EVAPORATOR SECTION IS OPERATING.
NOTE: MAX REQUIRED

OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE - 2021 IMC

| ZONE TAG | FACILITY TYPE | ZONE USE | ZONE FLOOR AREA (SF) Az | ZONE MAX OCCUPANCY Rp | TABLE 6.1 OA/person (Rp) | TABLE 6.1 cfm/h2 (Ra) | Pz*Rp | Az*Ra | TABLE 6.2 VENTILATION EFF. (Ez) | ZONE OA (CFM) |
|------------------------|------------------------|----------------------|-------------------------|-----------------------|--------------------------|-----------------------|-------------------|-------|---------------------------------|---------------|
| AHU#4 | EDUCATIONAL FACILITIES | OFFICE SPACE | 781 (4) | 20 | 5.0 | 0.06 | 100 | 47 | 0.8 | 184 (3) |
| ZONE HEIGHT (FT) | | 10 | AIR CHANGES/HOUR | | 8.8 | | | | | |
| DESIRED OA (Vo) IAQ | | 125 | OA PER VRP | | 184 CFM | | VRP OA CFM/PERSON | | 9.2 | |
| MAX/MIN SA (Vs) | | 1150 | OA PER IAQ | | 125 CFM | | IAQ OA CFM/PERSON | | 6.3 | |
| RETURN AIR (Vr) | | 1025 | OA SAVINGS | | 59 CFM | | | | | |
| RECIRC. FLOW FACTOR(R) | | 0.89 | OA DRY BULB | | 95 °F | | | | | |
| VENT. EFF. (Ez) | | 0.8 | OA WET BULB | | 80 °F | | | | | |
| PHYSICAL ACTIVITY | | STANDING (DESK WORK) | COIL LVG. DRY BULB | | 55 °F | | | | | |
| FILTER LOCATION | | B | COIL LVG. WET BULB | | 54 °F | | | | | |
| HVAC FLOW TYPE | | CONSTANT | | | | | | | | |
| OA FLOW TYPE | | CONSTANT | | | | | | | | |

| CONTAMINANT OF CONCERN | CONTAMINANT SOURCE | MAXIMUM THRESHOLD VALUE (PPM) | STEADY STATE USING VRP | STEADY STATE USING IAQ | STEADY STATE LEVEL OK @ REDUCED OA? |
|------------------------|--------------------|-------------------------------|------------------------|------------------------|-------------------------------------|
| ACETALDEHYDE | PEOPLE | 100 | 0.01115 | 0.00111 | YES |
| ACETONE | PEOPLE | 250 | 0.00215 | 0.00038 | YES |
| AMMONIA | PEOPLE | 25 | 0.03095 | 0.00858 | YES |
| BENZENE | PEOPLE | 1 | 0.00253 | 0.00025 | YES |
| 2-BUTANONE (MEK) | | | | | |

| NEMA 1, SURFACE MOUNT | | PANEL MP SCHEDULE | | | | 22,000 AIC RATING | |
|-----------------------|------------------|-------------------|-----|------------------|------------------|-------------------|--|
| CKT NO. | LOAD DESCRIPTION | BREAKER POLE AMP | KVA | BREAKER AMP POLE | LOAD DESCRIPTION | CKT NO. | |
| 1 | NEW FAILURE TO | | | 4.5 | 30 | 2 | |
| 3 | PANEL P1 | 3 | 100 | 31.0 | | 4 | |
| 5 | | | | 20 | 1 | 6 | |
| 7 | | | | | | 8 | |
| 9 | AHU#1 | 3 | 45 | 13.0 | 5.4 | 30 | |
| 11 | | | | | | 10 | |
| 13 | | | | | | 12 | |
| 15 | AHU#2 | 3 | 45 | 12.2 | 4.8 | 25 | |
| 17 | | | | | | 14 | |
| 19 | | | | | | 16 | |
| 21 | AHU#3 | 3 | 45 | 13.0 | 5.4 | 30 | |
| 23 | | | | | | 20 | |
| 25 | | | | | | 22 | |
| 27 | AHU#4 | 3 | 45 | 12.2 | 4.8 | 25 | |
| 29 | | | | | | 26 | |
| 31 | | | | | | 28 | |
| 33 | AHU#5 | 3 | 45 | 12.2 | 4.8 | 25 | |
| 35 | | | | | | 30 | |
| 37 | | | | | | 32 | |
| 39 | SPARE | 3 | | | | 34 | |
| 41 | | | | | | 36 | |
| CONNECTED LOAD | | 123.3 KVA | | | | | |

(G) INDICATES GFCI TYPE BREAKER.

| NEMA 1, SURFACE MOUNT | | PANEL P1 SCHEDULE | | | | 10,000 AIC RATING | |
|-----------------------|---|-------------------|-----|------------------|------------------|-------------------|--|
| CKT NO. | LOAD DESCRIPTION | BREAKER POLE AMP | KVA | BREAKER AMP POLE | LOAD DESCRIPTION | CKT NO. | |
| 1 | COUNTER EQUIPMENT | 1 | 20 | 1.0 | 1.0 | 20 | |
| 3 | COUNTER EQUIPMENT | 1 | 20 | 1.0 | 0.8 | 20 | |
| 5 | RECPT - BREAKROOM | 1 | 20 | 0.6 | 0.8 | 20 | |
| 7 | RECPT - DEV. 120 | 1 | 20 | 0.8 | 0.4 | 20 | |
| 9 | RECPT - COUNSEL 108 | 1 | 20 | 1.0 | 1.0 | 20 | |
| 11 | RECPT - PRINCIPAL 106 | 1 | 20 | 1.2 | 1.0 | 20 | |
| 13 | RECPT - ADMISS 104 | 1 | 20 | 0.8 | 0.8 | 20 | |
| 15 | RECPT - HALLWAY 125 | 1 | 20 | 0.6 | 1.2 | 20 | |
| 17 | RECPT - WAITING 100 | 1 | 20 | 1.0 | 1.0 | 20 | |
| 19 | RECPT - CONF. 114 | 1 | 20 | 1.2 | 0.2 | 20 | |
| 21 | RECPT - CLINIC 116 | 1 | 20 | 0.8 | 0.6 | 20 | |
| 23 | RECPT - CLASSROOM 113 | 1 | 20 | 1.0 | 1.0 | 20 | |
| 25 | RECPT - TEACHER RESOURCE 110 | 1 | 20 | 1.2 | 0.5 | 20 | |
| 27 | RECPT - CLASSROOM 109 | 1 | 20 | 1.0 | 1.0 | 20 | |
| 29 | RECPT - EXTERIOR | 1 | 20 | 0.4 | 1.0 | 20 | |
| 31 | LIGHTING - EXTERIOR | 1 | 20 | 0.4 | 1.6 | 20 | |
| 33 | LIGHTING - HALLWAYS, DEV, SPEECH, BREAKRM, ELEC, CLINIC | 1 | 20 | 1.2 | 1.1 | 20 | |
| 35 | SMARTBOARD CLASSROOM 109 | 1 | 20 | 0.2 | 0.2 | 20 | |
| 37 | RECPT - EXTERIOR HVAC | 1 | 20 | 0.4 | 0.2 | 20 | |
| 39 | PRINTER | 1 | 20 | 0.5 | 0.4 | 20 | |
| 41 | FACP (L) | 1 | 20 | | | 20 | |
| 43 | SPARE | 1 | 20 | | | 20 | |
| 45 | SPARE | 1 | 20 | | | 20 | |
| 47 | SPARE | 1 | 20 | | | 20 | |
| 49 | SPARE | 1 | 20 | | | 20 | |
| CONNECTED LOAD | | 31.0 KVA | | | | | |

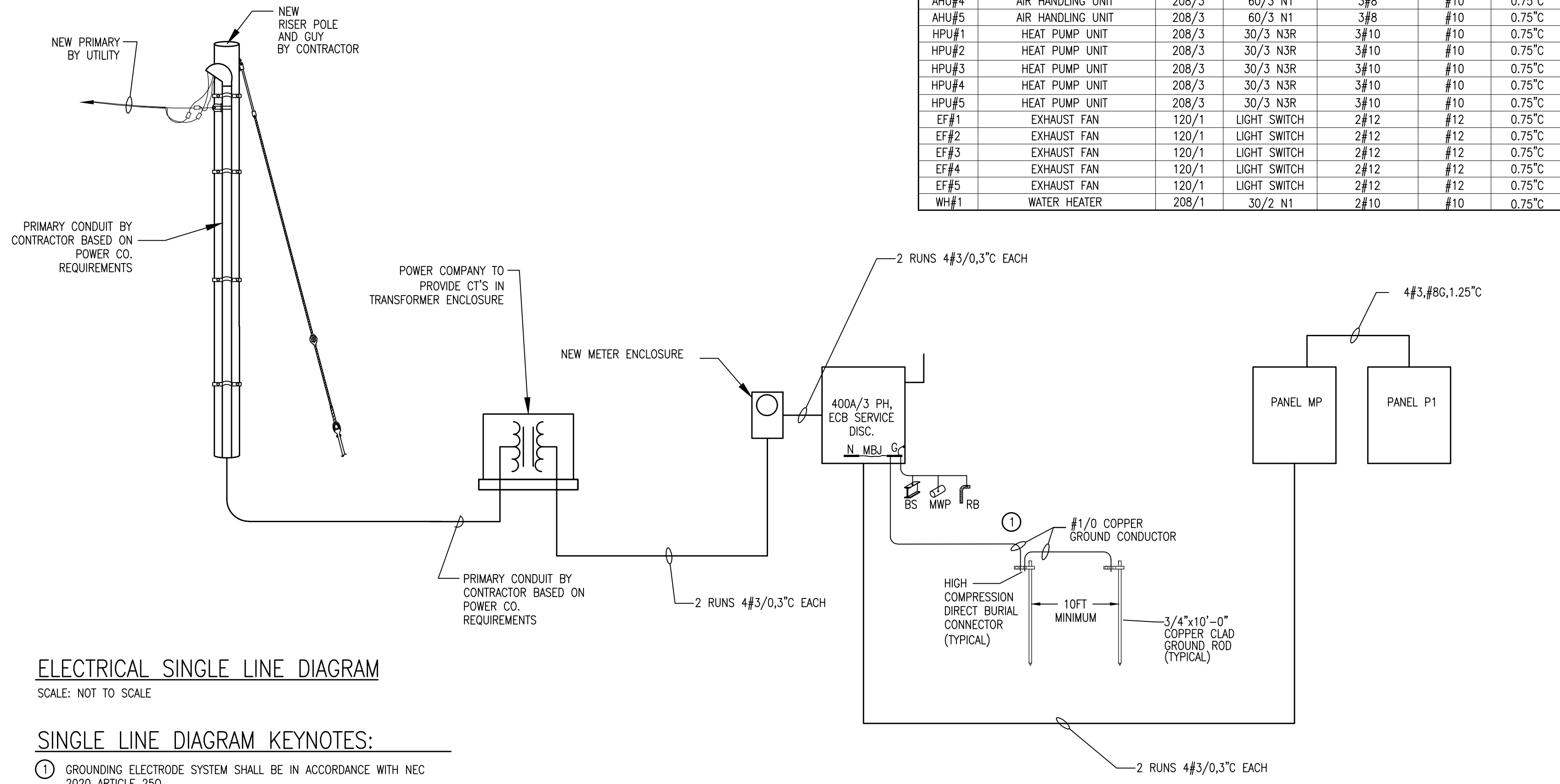
(G) INDICATES GFCI TYPE BREAKER.
(L) INDICATES LOCKABLE CIRCUIT BREAKER.

| LIGHTING FIXTURE SCHEDULE | | | | | | |
|---------------------------|--------|-------|---------|-----------------------------|--|---|
| MARK | LUMENS | WATTS | TYPE | MOUNTING | MANUFACTURER AND CATALOG NUMBER | NOTES |
| 75R | 2470 | 18.2 | LED 35K | WALL MOUNTED | H.E. WILLIAMS # 75R-2-L25/835-EM/10WLP-DIM-UNV | MOUNT LIGHT ABOVE DOORWAY |
| DL DLE | 1988 | 19.0 | LED 35K | RECESSED CEILING | H.E. WILLIAMS # 6DR-TL-L20/835-DIM-UNV-OW-OF-CS-MWT-N-F1 H.E. WILLIAMS # 6DR-TL-L30/835-EM/7W-DIM-UNV-OW-OF-CS-MWT-N-F1 | |
| DLS DLSE | 3062 | 26.9 | LED 35K | RECESSED CEILING | H.E. WILLIAMS # 6DR-TL-L30/835-DIM-UNV-OW-OF-CS-MWT-N-F1 H.E. WILLIAMS # 6DR-TL-L30/835-EM/7W-DIM-UNV-OW-OF-CS-MWT-N-F1 | |
| DLW DLWE | 1988 | 19.0 | LED 35K | RECESSED CEILING | H.E. WILLIAMS # 6DR-TL-L20/835-DIM-UNV-OW-OF-CS-WET/CC-N-F1 H.E. WILLIAMS # 6DR-TL-L20/835-EM/7W-DIM-UNV-OW-OF-CS-WET/CC-N-F1 | |
| EX | N/A | 2.5 | LED RED | UNIVERSAL | H.E. WILLIAMS # EXIT-R-EM-COPY/SF-0 | |
| LRX LRXE | 4890 | 40.2 | LED 35K | CEILING GRID | H.E. WILLIAMS # LRX4F-6-L8/835-DMA-DIM-UNV H.E. WILLIAMS # LRX4F-6-L8/835-EM/10W-DMA-DIM-UNV | |
| LSP LSPPE | 16450 | 151.2 | LED 35K | RECESSED CEILING | H.E. WILLIAMS # MX4R-G-14-L12/835-F-DIM-UNV H.E. WILLIAMS # MX4R-G-14-L12/835-F-EM/10W-DIM-UNV | |
| LT22A LT22AE | 2722 | 21.3 | LED 35K | CEILING GRID | H.E. WILLIAMS # LT-22-L27/835-AF-DIM-UNV H.E. WILLIAMS # LT-22-L27/835-AF-EM/10W-DIM-UNV | |
| LT22B LT22BE | 3834 | 33.1 | LED 35K | CEILING GRID | H.E. WILLIAMS # LT-22-L39/835-AF-DIM-UNV H.E. WILLIAMS # LT-22-L39/835-AF-EM/10W-DIM-UNV | |
| OL | 760 | 12.0 | LED 50K | BEAM MOUNTED | MODERN FORMS WS-W18710-BK | |
| P | 3475 | 34.0 | LED 35K | SUSPEND CEILING | FULTON 2654-2-FINISH-R34-SUSPENSION-35K | COORDINATE FINISH AND SUSPENSION HEIGHT WITH ARCHITECT. |
| UL | 365 | 7.0 | LED 30K | ACCENT LIGHTING | WAC LIGHTING # 5111-30BK | |
| WS | 760 | 12.0 | LED 50K | WALL MOUNTED @ 8'-0" A.F.F. | MODERN FORMS WS-W18710-BK | |

| MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE | | | | | | |
|--|-------------------|-----------|-------------------|------------|--------|---------|
| MARK | ITEM | VOLTAGE/Ø | DISCONNECT SWITCH | FEEDER | | |
| | | | | CONDUCTORS | GROUND | CONDUIT |
| AHU#1 | AIR HANDLING UNIT | 208/3 | 60/3 N1 | 3#8 | #10 | 0.75°C |
| AHU#2 | AIR HANDLING UNIT | 208/3 | 60/3 N1 | 3#8 | #10 | 0.75°C |
| AHU#3 | AIR HANDLING UNIT | 208/3 | 60/3 N1 | 3#8 | #10 | 0.75°C |
| AHU#4 | AIR HANDLING UNIT | 208/3 | 60/3 N1 | 3#8 | #10 | 0.75°C |
| AHU#5 | AIR HANDLING UNIT | 208/3 | 60/3 N1 | 3#8 | #10 | 0.75°C |
| HPU#1 | HEAT PUMP UNIT | 208/3 | 30/3 N3R | 3#10 | #10 | 0.75°C |
| HPU#2 | HEAT PUMP UNIT | 208/3 | 30/3 N3R | 3#10 | #10 | 0.75°C |
| HPU#3 | HEAT PUMP UNIT | 208/3 | 30/3 N3R | 3#10 | #10 | 0.75°C |
| HPU#4 | HEAT PUMP UNIT | 208/3 | 30/3 N3R | 3#10 | #10 | 0.75°C |
| HPU#5 | HEAT PUMP UNIT | 208/3 | 30/3 N3R | 3#10 | #10 | 0.75°C |
| EF#1 | EXHAUST FAN | 120/1 | LIGHT SWITCH | 2#12 | #12 | 0.75°C |
| EF#2 | EXHAUST FAN | 120/1 | LIGHT SWITCH | 2#12 | #12 | 0.75°C |
| EF#3 | EXHAUST FAN | 120/1 | LIGHT SWITCH | 2#12 | #12 | 0.75°C |
| EF#4 | EXHAUST FAN | 120/1 | LIGHT SWITCH | 2#12 | #12 | 0.75°C |
| EF#5 | EXHAUST FAN | 120/1 | LIGHT SWITCH | 2#12 | #12 | 0.75°C |
| WH#1 | WATER HEATER | 208/1 | 30/2 N1 | 2#10 | #10 | 0.75°C |

| 100A M.L.O 240/120V 1Ø 3W | | EXIST. PANEL FA SCHEDULE | | | | 10,000 AIC RATING | |
|---------------------------|----------------------------------|--------------------------|-----|------------------|--------------------------|-------------------|--|
| CKT NO. | LOAD DESCRIPTION | BREAKER POLE AMP | KVA | BREAKER AMP POLE | LOAD DESCRIPTION | CKT NO. | |
| 1 | NEW CLASSROOM LIGHTS (N) | 1 | 20 | 1.0 | 20 | 1 | |
| 3 | GUIDANCE&BOOKKEEPER&BATH (E) | 1 | 20 | | PRINC. OFFICE & SAFE RM | 4 | |
| 5 | REC. COPY RM, FRIDGE (E) | 1 | 20 | | RECS | 6 | |
| 7 | NETWORK BOX-INTERCOM (E) | 1 | 20 | | RECS | 8 | |
| 9 | MASTER CLOCK (E) | 1 | 20 | | UPPER HALL TOILET/COPIER | 10 | |
| 11 | LIGHTS VISUAL AID (E) | 1 | 20 | | EXISTING CIRCUIT | 12 | |
| 13 | REC TEACHER LOUNGE, MUSIC RM (E) | 1 | 20 | | FIRE ALARM | 14 | |
| 15 | COKE MACHINE (E) | 1 | 20 | | AC OFFICE | 16 | |
| 17 | EXISTING CIRCUIT (E) | 2 | 30 | | COPY MACHINE | 18 | |
| 19 | | | | | PLUG IN TEACHER LOUNGE | 20 | |
| 21 | CLASSROOM 201 RECS (N) | 1 | 20 | 0.6 | 0.8 | 20 | |
| 23 | CLASSROOM 201 RECS (N) | 1 | 20 | 0.6 | 0.6 | 20 | |
| CONNECTED LOAD | | ... | | KVA | | | |

(E) INDICATES EXISTING BREAKER. (L) EXISTING BREAKER SHALL BE REPLACED WITH A LOCKABLE BREAKER.
(N) INDICATES NEW BREAKER AND CIRCUIT SHALL REPLACE EXISTING.

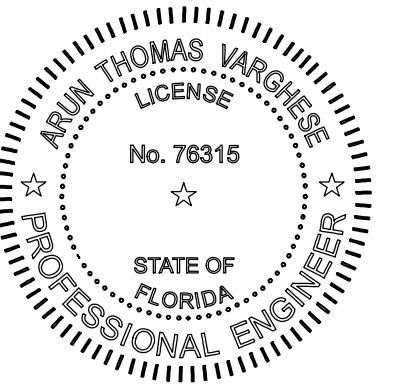


ELECTRICAL SINGLE LINE DIAGRAM

SCALE: NOT TO SCALE

SINGLE LINE DIAGRAM KEYNOTES:

- ① GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC 2020 ARTICLE 250.



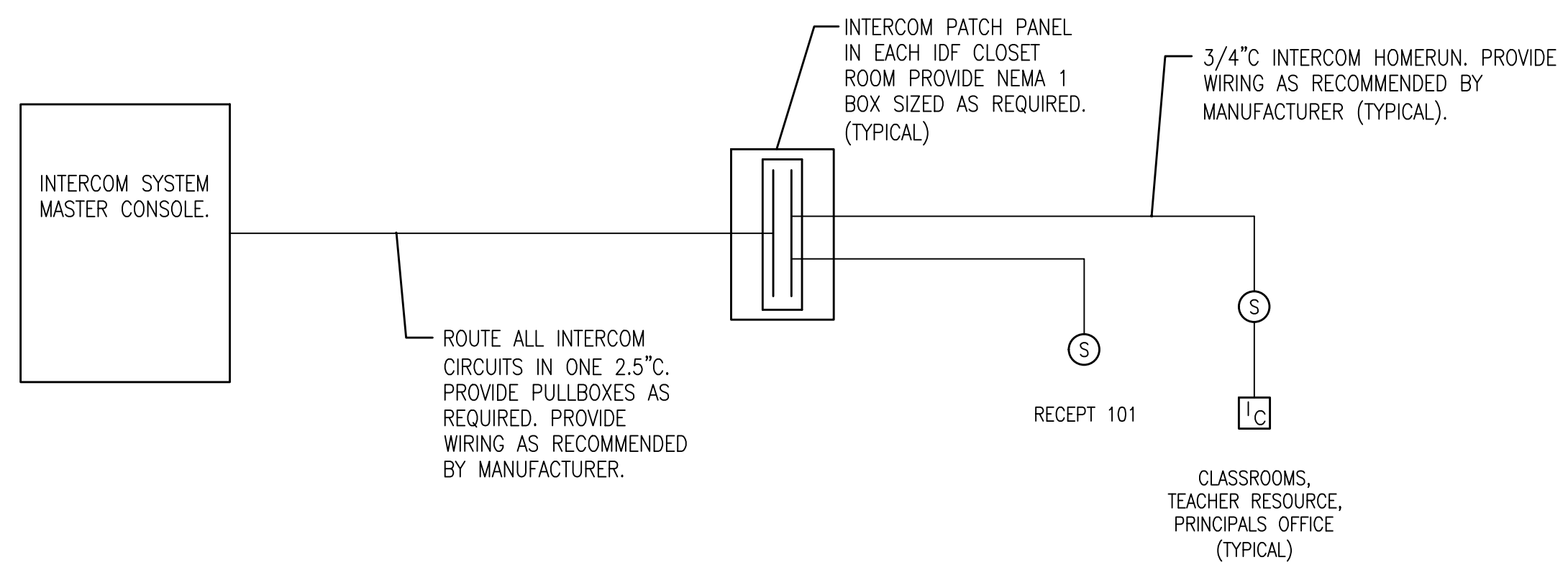
H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS / EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)434-2661
CERTIFICATION OF AUTHORIZATION No. 5254
MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG NO. 32093
ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG NO. 76315

Project
Admin-Classroom Building
St. Mary Catholic School
Fort Walton Beach, Florida

Date: 04-24-26
Project No. 2025
Sheet No. **E0.1**

| LIGHTING SYMBOL LEGEND | |
|---|---|
| SYMBOL | DESCRIPTION |
| | "LED" LIGHTING FIXTURE. LETTER(S) DENOTE TYPE - SEE LIGHTING FIXTURE SCHEDULE. |
| | "LED" LIGHTING FIXTURE WITH INTEGRAL BATTERY BACKUP. |
| \$ | 3 - 20 AMP, 120/277 VAC SINGLE POLE TOGGLE SWITCH D - 0-10V ON/OFF/DIMMING WALL SWITCH. SEE LIGHTING PLANS AND DETAILS FOR ADDITIONAL REQUIREMENTS. DT - DUAL TECHNOLOGY MOTION SENSOR WALL SWITCH. WATTSTOPPER DW-100. TIME DELAY DURATION SHALL BE 20 MINUTES MAXIMUM. PROGRAM FOR "MANUAL ON". MO - LOW VOLTAGE MOMENTARY TOGGLE SWITCH EQUAL TO WATTSTOPPER LVS-1 FOR "MANUAL ON" CONTROL OF CEILING MOUNTED OCCUPANCY SENSOR. |
| | "LED" EXIT LIGHT WITH BATTERY. DARKENED QUADRANTS INDICATE ILLUMINATED FACES, ARROWS AS INDICATED. LETTER(S) DENOTE TYPE - SEE LIGHTING FIXTURE SCHEDULE. |
| | POWER PACK RELAY FOR CONTROL OF LIGHTING CONTROLS, EQUAL TO WATTSTOPPER CAT# BZ-50. MOUNT DEVICE IN AN ACCESSIBLE LOCATION. |
| | DUAL TECHNOLOGY CEILING-MOUNTED 360° OCCUPANCY SENSOR, WATTSTOPPER DT-300. SEE LIGHTING CONTROL WIRING DIAGRAM FOR ADDITIONAL INFORMATION. MOUNT AT LOCATION AS INDICATED ON PLANS. DEVICE SHALL BE PROGRAMMED FOR "AUTOMATIC ON" (UNLESS INDICATED OTHERWISE ON PLANS). PROGRAM SUCH THAT BOTH TECHNOLOGIES ARE REQUIRED TO TRIGGER LIGHTS "ON" AND EITHER TECHNOLOGY SHALL "HOLD" LIGHTS "ON". SEE PLANS FOR SENSOR LOCATIONS THAT ARE "MANUAL ON" ONLY. TIME DELAY DURATION SHALL BE 20 MINUTES MAXIMUM. SEE MANUFACTURERS INSTRUCTIONS FOR APPROPRIATE DIP SWITCH SETTINGS. |
| SYMBOLS NOTES: 1. ALL DEVICES ARE TO BE FLUSH MOUNTED. 2. MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE. 3. ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING. 4. ALL MULTI - GANG DEVICES SHALL USE A COMMON COVER PLATE 5. COLORS FOR ALL DEVICES (i.e. SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC.) AND THEIR COVER PLATES SHALL BE DETERMINED BY THE ARCHITECT. | |

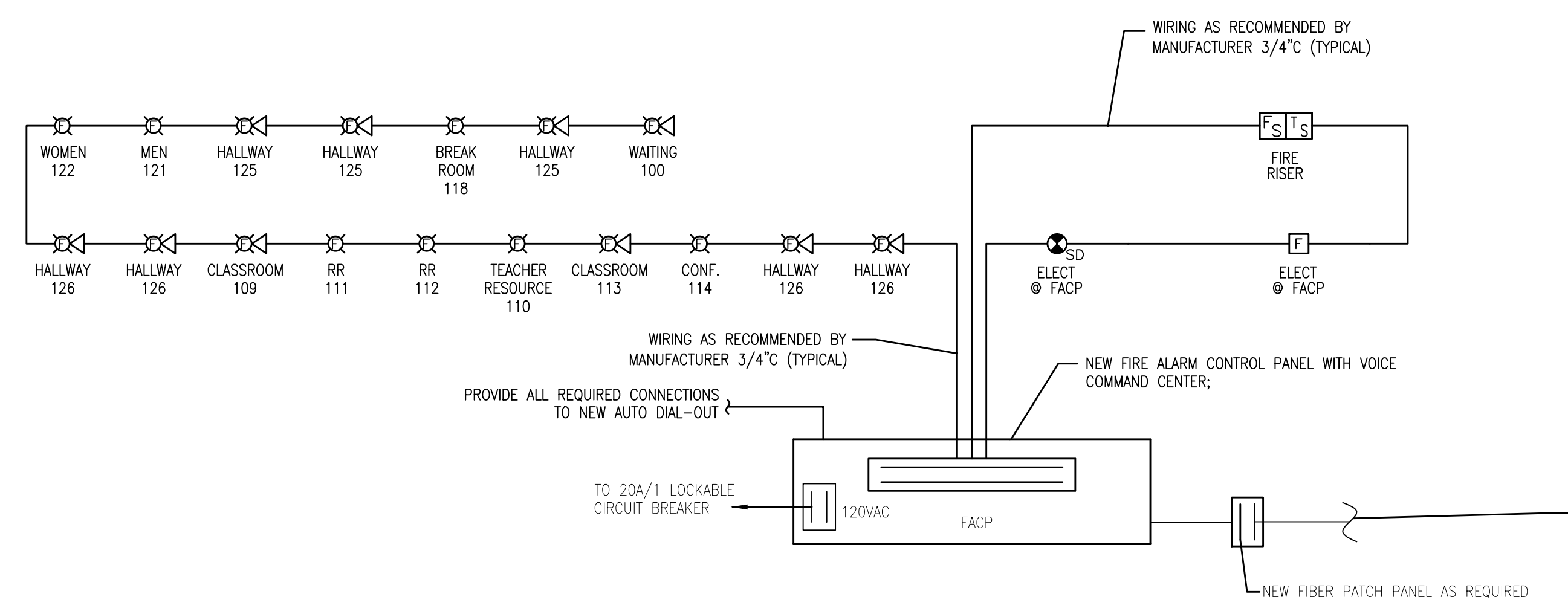
| ELECTRICAL SYMBOL LEGEND | |
|--|---|
| SYMBOL | DESCRIPTION |
| | PANELBOARD - SEE RESPECTIVE PANELBOARD SCHEDULE. |
| | BRANCH CIRCUIT CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING. ARROW INDICATES CIRCUIT HOMERUN, HASHMARKS INDICATE NUMBER OF CONDUCTORS, ABSENCE OF HASHMARKS INDICATES TWO CONDUCTORS PLUS GROUND. "A" DENOTES PANELBOARD SERVING CIRCUIT, "1" INDICATES CIRCUIT BREAKER SPACE IN PANELBOARD. SEE RESPECTIVE PANEL CIRCUIT SCHEDULE. MINIMUM CIRCUIT SIZE = 2#12, 1#12G, 1/2" UNLESS NOTED OTHERWISE ON PANEL SCHEDULES OR DRAWINGS. PROVIDE DEDICATED NEUTRAL. SHARING OF THE NEUTRAL CONDUCTOR BETWEEN CIRCUITS IS PROHIBITED. |
| | INDICATES ELECTRICAL CONDUIT ROUTED UNDERGROUND/SLAB. |
| | ELECTRIC MOTOR - SEE RESPECTIVE EQUIPMENT SCHEDULE. |
| | NON-FUSED DISCONNECT, HEAVY DUTY (SAFETY) SWITCH - SIZE AND TYPE AS NOTED. TOP OF SWITCH 6"-6" A.F.F. PROVIDE PHENOLIC LABEL MOUNTED ABOVE DISCONNECT. |
| | 20 AMP, 120 VAC, 2-POLE, 3-WIRE, GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE. |
| | 20 AMP, 120 VAC, 2-POLE, 3-WIRE, GROUND FAULT CIRCUIT INTERRUPTED TYPE DUPLEX RECEPTACLE FLUSH WALL-MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE. |
| | 20 AMP, 120 VAC, 2-POLE, 3-WIRE, GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE. TAMPER RESISTANT. |
| | 20 AMP, 120 VAC, 2-POLE, 3-WIRE, GROUND FAULT CIRCUIT INTERRUPTED TYPE DUPLEX RECEPTACLE FLUSH WALL-MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE. TAMPER RESISTANT. |
| WP | INDICATES GFCI WIRING DEVICE WITH WEATHER-PROOF IN-USE COVER PLATE. |
| C | INDICATES DEVICE FLUSH MOUNTED HORIZONTALLY 6" ABOVE COUNTERTOP OR IN BACKSPASH. |
| MW | INDICATES RECEPTACLE FOR MICROWAVE OVEN. COORDINATE MOUNTING LOCATION WITH CASE WORK. |
| REF | INDICATES RECEPTACLE FOR REFRIGERATOR. FLUSH WALL MOUNT 60" A.F.F. UNLESS NOTED OTHERWISE. |
| | (2) 20A, 125 VAC 2P, 3W, GROUNDING TYPE, DUPLEX RECEPTACLES FLUSH MOUNTED IN FLOOR BOX WITH FLUSH FACEPLATE AND (2) DATA OUTLETS AS INDICATED ON TELECOM LEGEND. PROVIDE DEVICE MOUNTING BRACKETS FOR EACH DEVICE. FLOOR BOX EQUAL TO LEGRAND WIREMOLD RACHET-PRO RPACTCAL. COORDINATE ALL FLOORBOX REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. |
| | VOICE/DATA OUTLET IN A 4" SQUARE BOX WITH 1 GANG EXTENSION RING. DEVICE MOUNTED 18" AFF UNLESS NOTED OTHERWISE. STUB 3/4" FROM BACKBOX TO 6" ABOVE ACCESSIBLE CEILING, PROVIDE CONDUIT BUSHINGS. |
| | SPRINKLER SYSTEM FLOW SWITCH, FURNISHED AND INSTALLED BY FIRE PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL VIA AN ADDRESSABLE MONITOR MODULE BY FIRE ALARM SYSTEM CONTRACTOR. |
| | SPRINKLER SYSTEM TAMPER SWITCH, FURNISHED AND INSTALLED BY FIRE PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL VIA AN ADDRESSABLE MONITOR MODULE BY FIRE ALARM SYSTEM CONTRACTOR. |
| S | INTERCOM SYSTEM CEILING MOUNTED SPEAKER. |
| | WIRED WALL ANALOG 120V POWERED CLOCK, MOUNTED 1' ABOVE MARKER BOARD. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE ALL POWER CONNECTIONS AS REQUIRED TO SMART BOARD POWER CIRCUIT. COORDINATE WITH CLOCK MANUFACTURER FOR RECEPTACLE REQUIREMENTS PRIOR TO ANY ROUGH-IN. |
| | FIRE ALARM SYSTEM SPEAKER / STROBE DEVICE CEILING MOUNTED, UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. STROBE SHALL BE 75 CANDELLA MINIMUM UNLESS NOTED OTHERWISE. |
| | FIRE ALARM SYSTEM VISUAL DEVICE CEILING MOUNTED, UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. STROBE SHALL BE 75 CANDELLA MINIMUM UNLESS NOTED OTHERWISE. |
| | ADDRESSABLE INTELLIGENT CEILING MOUNTED FIRE ALARM SYSTEM PHOTOELECTRIC TYPE SMOKE DETECTOR WITH BASE. |
| FACP | ADDRESSABLE INTELLIGENT FIRE ALARM SYSTEM CONTROL PANEL - WITH CELLULAR AUTO-DIAL OUT. VOICE EVACUATION CAPABLE. |
| F | FIRE ALARM SYSTEM ADDRESSABLE PULL STATION - SEMI FLUSH MOUNTED 48" A.F.F. TO TOP UNLESS NOTED OTHERWISE. |
| | FIRE ALARM SYSTEM SPEAKER / STROBE DEVICE WALL MOUNTED, UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. STROBE SHALL BE 75 CANDELLA MINIMUM UNLESS NOTED OTHERWISE. |
| | INTERCOM SYSTEM WIRING |
| | INTERCOM SYSTEM HOMERUN |
| | INTERCOM SYSTEM WALL MOUNTED CALL STATION. MOUNT 48" AFF. |
| SYMBOLS NOTES: 1. ALL OUTLETS ARE TO BE FLUSH MOUNTED. 2. MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE. 3. ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING. 4. ALL MULTI - GANG DEVICES SHALL USE A COMMON COVER PLATE 5. ALL DEVICES (i.e. SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC.) AND THEIR COVER PLATES SHALL BE COLOR AS DETERMINED BY THE ARCHITECT UNLESS NOTED OTHERWISE. 6. A.F.F. INDICATES MOUNTING HEIGHT ABOVE FINISHED GRADE. 7. A.F.F. INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR. | |



INTERCOM RISER DIAGRAM
NOT SO SCALE

INTERCOM SYSTEM GENERAL NOTES:

1. VERIFY EXACT NUMBER OF DEVICES FROM FLOOR PLAN, NOT RISER DIAGRAM.



FIRE ALARM SYSTEM RISER DIAGRAM
NOT TO SCALE

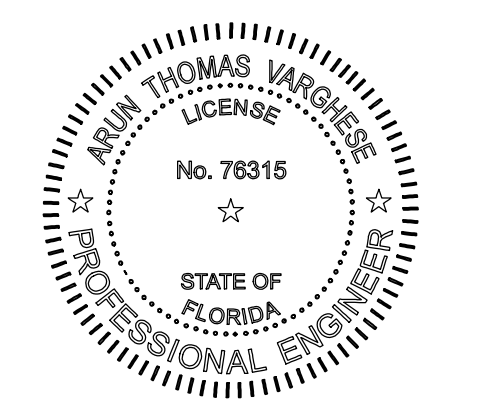
FIRE ALARM SYSTEM GENERAL NOTES:

- a. VERIFY EXACT NUMBER OF DEVICES FROM FLOOR PLAN, NOT RISER DIAGRAM.
- b. THE NAC CIRCUITS ARE SHOWN DIAGRAMATIC. MAXIMUM NUMBER OF DEVICES ON ANY CIRCUIT IS LIMITED. PROVIDE ADDITIONAL HARDWARE AS REQUIRED.
- c. SLC LOOP TO CONNECT ALL FIRE ALARM SYSTEM DEVICES FROM FLOOR PLANS. PROVIDE ADDITIONAL LOOP(S) AS REQUIRED.
- d. BATTERY CABINETS AND NAC EXPANDERS SHALL BE LOCATED BELOW OR ADJACENT TO FIRE ALARM CONTROL PANEL.
- e. ALL FIRE ALARM WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL AS DEFINED IN NFPA 72 (LATEST EDITION) SECTION(S) 4.3.3 AND 4.4.4.2. SHOP DRAWINGS SHALL COMPLY WITH NFPA 72 SECTION 4.5.1.1.
- f. SPLICING OF FIRE ALARM WIRING IS STRICTLY PROHIBITED.
- g. UPON PROJECT COMPLETION THE CAMPUS WIDE FIRE ALARM SYSTEM SHALL BE RECERTIFIED AND TESTED. PROVIDE WITH A RECORD OF COMPLETION AS REQUIRED IN NFPA 72 SECTION 4.5.2.
- h. THE FIRE ALARM INSTALLER SHALL BE LICENSED AS A CERTIFIED FIRE ALARM CONTRACTOR. THE CONTRACTOR MUST HAVE A NICET LEVEL III TECHNICIAN IN A POSITION OF RESPONSIBILITY, AND THE LICENSE SHALL BE ISSUED IN THE NAME OF THE CERTIFICATE HOLDER AND THE CONTRACTOR. TECHNICIANS WORKING FOR THE CERTIFIED CONTRACTOR MUST HOLD A CURRENT NICET LEVEL II, OR EQUIVALENT, CERTIFICATION. CONTRACTORS WISHING TO BID ON FIRE ALARM WORK SHALL SHOW EVIDENCE AT THE PRE-BID CONFERENCE THAT HE/SHE MEETS THE CERTIFICATION REQUIREMENTS AND HOLD A PERMIT ISSUED BY THE STATE OF FLORIDA FIRE MARSHAL.
- i. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. AUTOMATIC TELEPHONE DIALING DEVICES USED TO TRANSMIT AN EMERGENCY ALARM SHALL NOT BE CONNECTED TO ANY FIRE DEPARTMENT TELEPHONE NUMBER UNLESS APPROVED BY THE FIRE CHIEF.

H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS / EST. 1988

51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)434-2661

CERTIFICATION OF AUTHORIZATION No. 5254
MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG No. 32093
ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG No. 70378



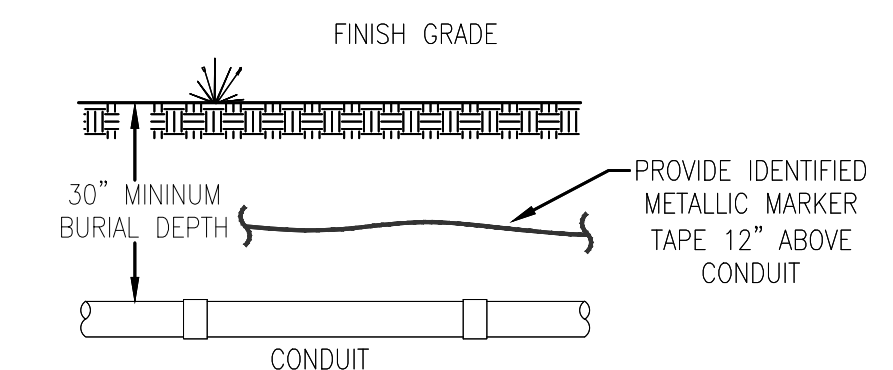
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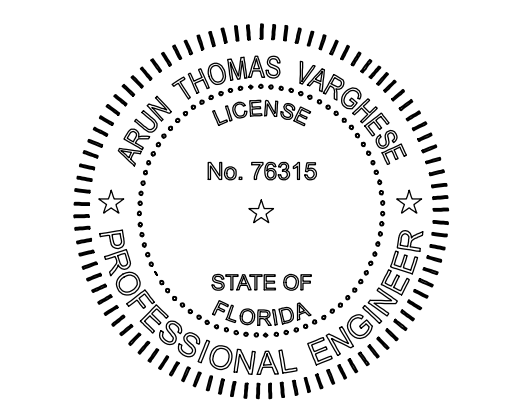
Sheet No.
E0.2

SITE PLAN KEYNOTES:

- 1 NEW 3-PHASE, POLE MOUNTED TRANSFORMER ASSEMBLY WITH CT AND METER BY POWER COMPANY. SEE RISER DIAGRAM FOR MORE INFORMATION. PAD BY CONTRACTOR BASED ON POWER COMPANY REQUIREMENT. CONTRACTOR SHALL INCLUDE ALL SERVICE RELATED FEES IN THEIR BID PRICE.
- 2 UNDERGROUND SECONDARY SERVICE FROM NEW TRANSFORMER. CONDUIT BY CONTRACTOR BASED ON POWER COMPANY REQUIREMENT. SEE RISER DIAGRAM FOR MORE INFORMATION.
- 3 NEW ELECTRICAL METER AND MAIN DISCONNECT SHALL BE MOUNTED TO A NEW GALVANIZED UNISTRUT FRAME. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN.
- 4 NEW CONDUIT ROUTED ABOVE CEILING FROM NEW ECB SERVICE ENTRANCE DISCONNECT TO NEW PANEL MP. SEE RISER DIAGRAM FOR MORE INFORMATION.
- 5 PROVIDE NEW 3"-2.5" CONDUIT ROUTED UNDERGROUND FOR USE WITH I.T., INTERCOM, AND FIRE ALARM SYSTEMS. COORDINATE FINAL LOCATION OF INTERCOM HEAD-END EQUIPMENT IN NEW AND EXISTING BUILDINGS WITH OWNER/ARCHITECT.
- 6 STUB UP LOCATION FOR I.T., INTERCOM, AND FIRE ALARM SYSTEM CONDUITS. COORDINATE FINAL LOCATION OF STUB UP WITH OWNER/ARCHITECT.
- 7 APPROXIMATE NEW LOCATION OF EXISTING INTERCOM/PAGING HEAD-END EQUIPMENT IN EXISTING BUILDING. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT.
- 8 NEW OVER HEAD TO UNDER GROUND SERVICE POLE. SEE RISER DIAGRAM.
- 9 NEW UNDERGROUND SERVICE ROUTING FROM SERVICE POLE TO NEW TRANSFORMER. SEE RISER DIAGRAM.



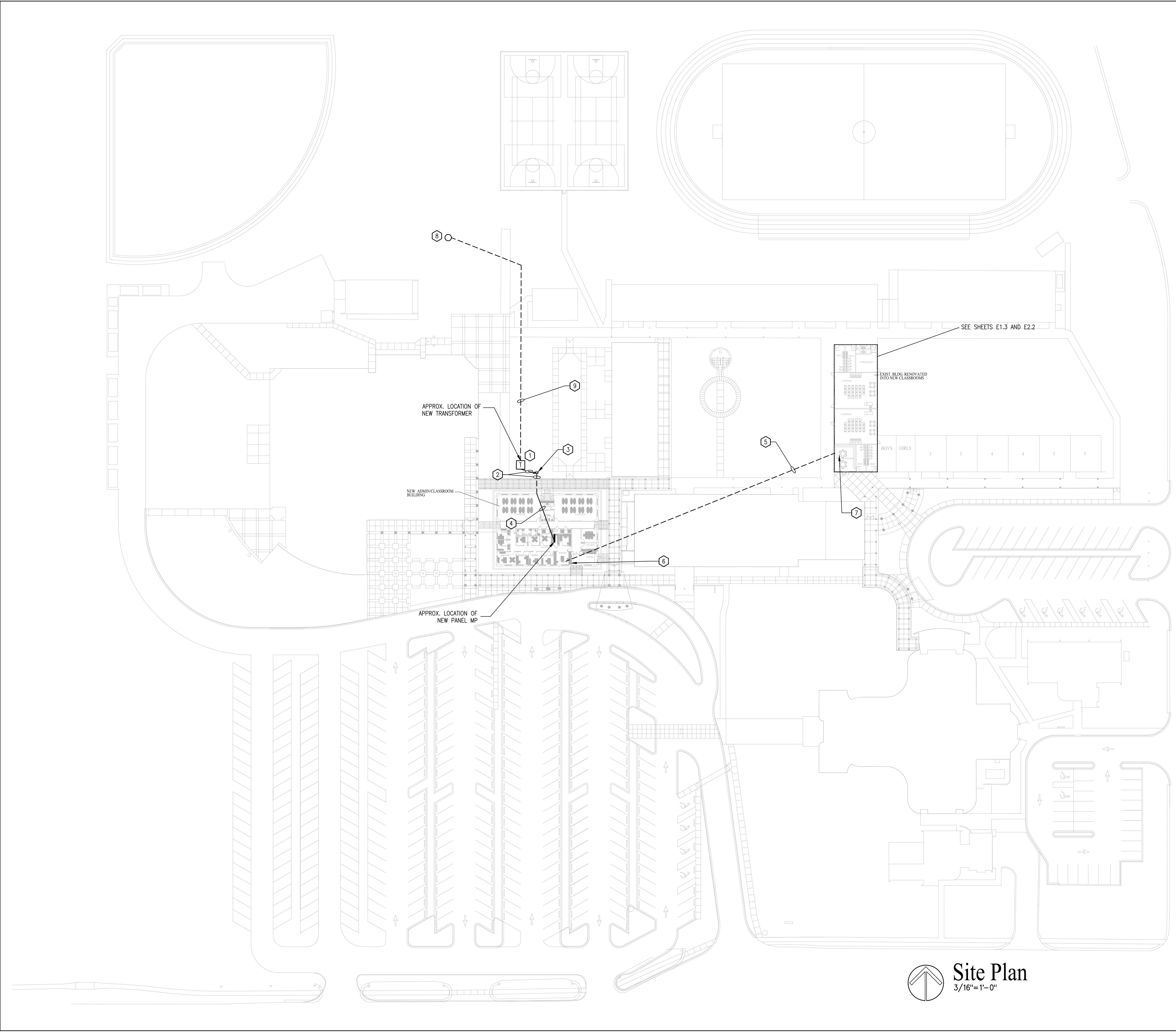
BURIED CONDUIT DETAIL
NOT TO SCALE

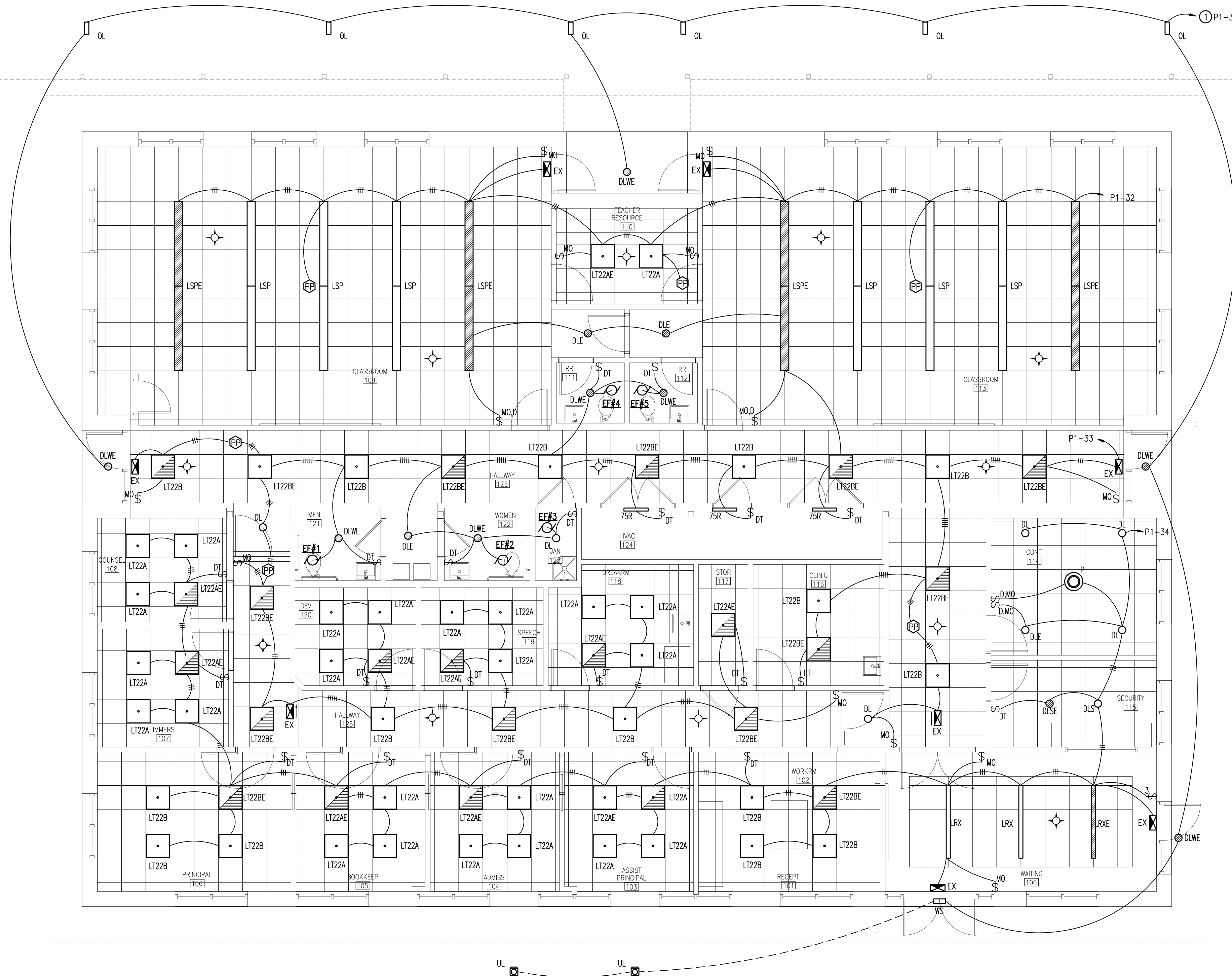


Site Plan
3/16"=1'-0"

H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS / EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)434-2661
CERTIFICATION OF AUTHORIZATION No. 5264
MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG. NO. 32093
ELECTRICAL ENGINEER ARIN T. VARGHESE, P.E. FLORIDA REG. NO. 78315

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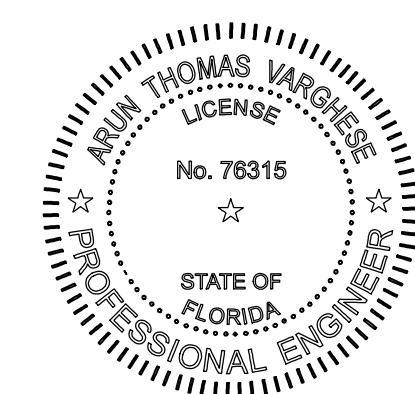
KEYNOTES:

- ① ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR AND ASTRONOMIC TIME CLOCK. LIGHTING CONTACTOR AND TIME CLOCK SHALL BE LOCATED ADJACENT TO SOURCE PANEL.

LIGHTING GENERAL NOTES:

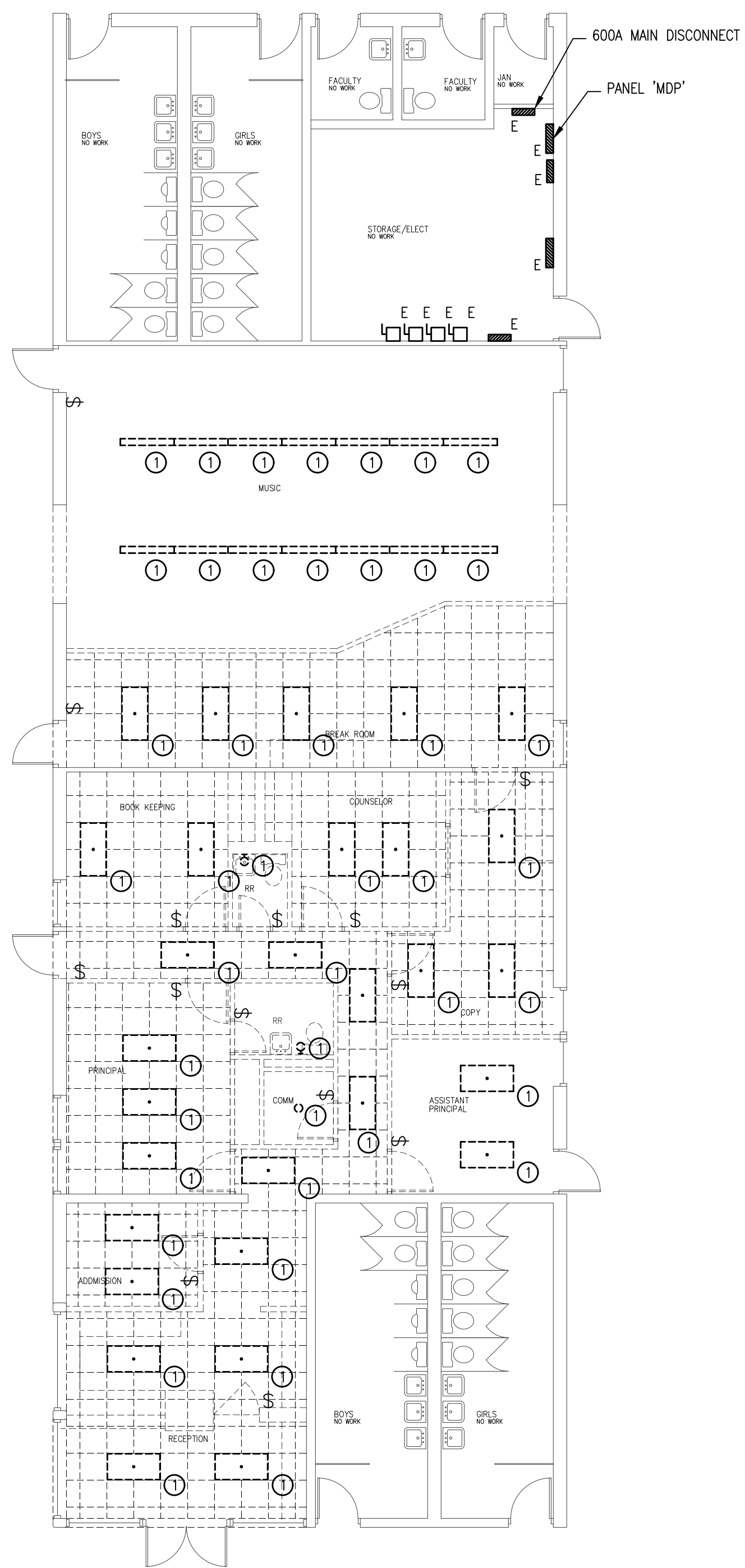
1. UNSWITCHED HOT CONDUCTORS TO LIGHTING FIXTURES ARE NOT SHOWN BUT SHALL BE PROVIDED AS REQUIRED.
2. LIGHTING SWITCHES INDICATED IN A ROOM SHALL CONTROL THE LIGHTING IN THAT ROOM.
3. LIGHTING SWITCHES WITH SMALL LETTER DESIGNATIONS SHALL BE USED TO LABEL MULTIPLE ZONES WITHIN A ROOM OR SPACE.
4. UNSWITCHED HOT CONDUCTORS TO EMERGENCY LIGHTING FIXTURES, INCLUDING EXIT SIGNS, ARE NOT SHOWN BUT SHALL BE PROVIDED AS REQUIRED.

 **Electrical Lighting Plan**
3/16"=1'-0"

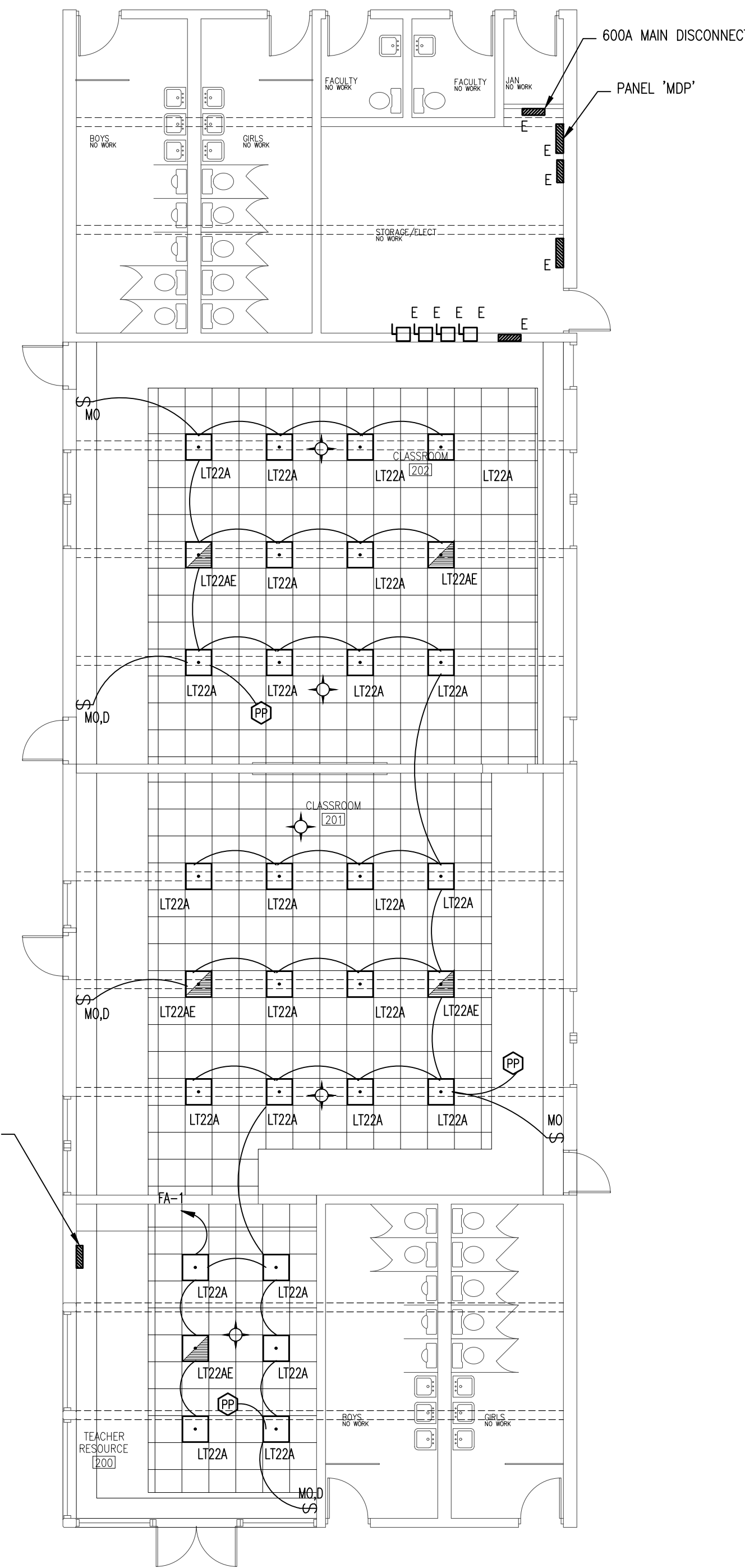


H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS / EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)434-2661
CERTIFICATION OF AUTHORIZATION No. 5254
MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG. NO. 32093
ELECTRICAL ENGINEER ARIN T. VARGHESE, P.E. FLORIDA REG. NO. 76315

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LIGHTING Demolition Plan
SCALE: 1/8"=1'-0"
BUILDING 2



LIGHTING New Work Plan
SCALE: 1/8"=1'-0"
BUILDING 2

DEMOLITION PLAN NOTES:

1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SECURING ALL DEVICES, FIXTURES, WIRES, CONDUIT, ETC. ABOVE THE CEILING PRIOR TO CEILING DEMOLITION. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED TO SUCH MATERIALS DURING THE CEILING DEMOLITION PHASE.
2. EXACT LOCATIONS FOR EXISTING MECHANICAL UNITS, DEVICES AND BOXES ARE TO BE FIELD VERIFIED.
3. ALL PENETRATIONS (NEW AND EXISTING) OF THE FIRE RATED BARRIERS SHALL BE FIRE STOPPED USING U.L. APPROVED METHODS AND MATERIALS.
4. ALL EXISTING PANELS ARE TO REMAIN (UNLESS OTHERWISE NOTED). THE ELECTRICAL CONTRACTOR IS TO VERIFY THE BREAKER SIZES, WIRE SIZES, PANEL SIZES, AND PANEL LOADS IN THE FIELD. ALL PANELS ARE TO BE COMPLETELY LABELED AND UPDATED DIRECTORIES INSTALLED. ALL PANELS ARE TO BE PROPERLY GROUNDED PER THE NATIONAL ELECTRIC CODE.
5. TERMINATED CIRCUITS THAT ARE NOT USED ON THE NEW WORK PLANS SHALL BE LABELED WITH THE SERVING PANEL AND CIRCUIT NUMBER CLEARLY MARKED ON THE TERMINATING JUNCTION BOX.
6. THE PHASING OF ALL WORK IS TO BE COORDINATED WITH OTHER CONTRACTORS (GENERAL, MECHANICAL, ETC.) PRIOR TO PROJECT COMMENCEMENT.
7. THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL JUNCTION BOX COVERS AS REQUIRED. ALL WIRE IN THE AREA OF WORK IS TO BE INSTALLED PROPERLY UPON COMPLETION OF THE PROJECT.
8. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL DEVICES, LIGHT FIXTURES AND OTHER EQUIPMENT TO REMAIN ACTIVE - CIRCUITS ASSOCIATED WITH BOTH REMOVED ELECTRICAL WORK AND ELECTRICAL WORK TO REMAIN ARE TO BE EXTENDED WITH WIRE, CONDUIT, BOXES, ETC. (SIZE TO MATCH EXISTING) TO KEEP THE WORK TO REMAIN ACTIVE.
9. THE CONTRACTOR SHOULD MAINTAIN THE INTEGRITY OF THE FIRE ALARM SYSTEM IN THE FACILITY AND IN THE CONSTRUCTION AREA AT ALL TIMES.

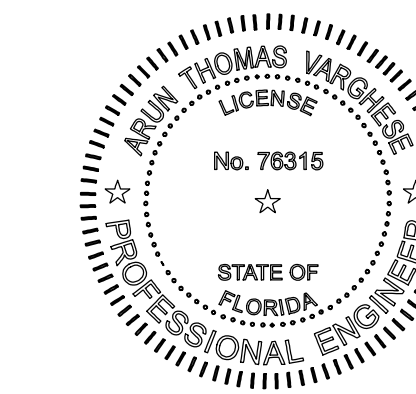
DEMOLITION KEYNOTES:

- 1 REMOVE LIGHTING FIXTURE ALONG WITH ASSOCIATED CONDUIT, WIRING AND WALL SWITCH CONTROLS.

"E" - DENOTES AN EXISTING DEVICE TO REMAIN.

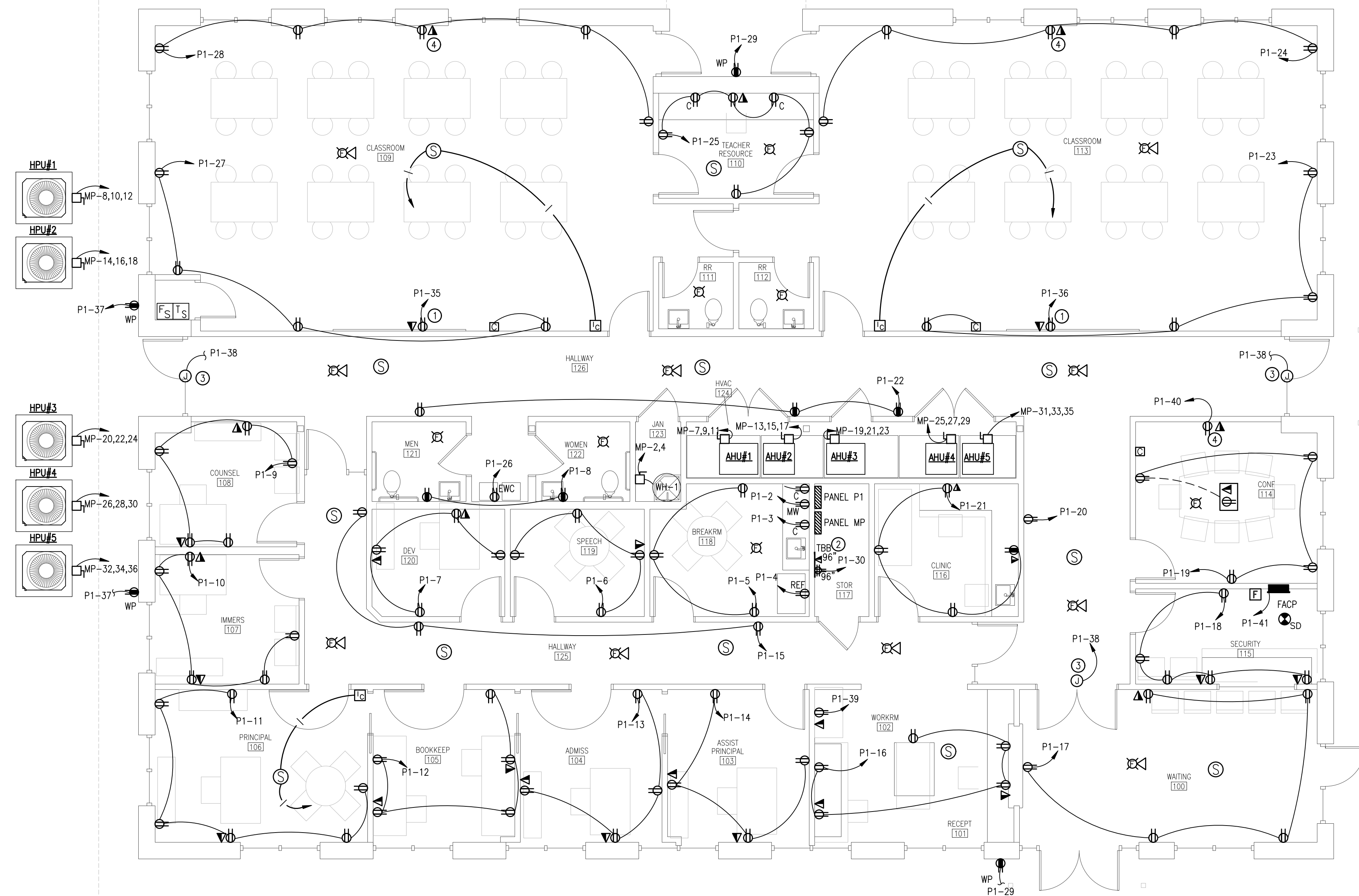
LIGHTING GENERAL NOTES:

1. UNSWITCHED HOT CONDUCTORS TO LIGHTING FIXTURES ARE NOT SHOWN BUT SHALL BE PROVIDED AS REQUIRED.
2. LIGHTING SWITCHES INDICATED IN A ROOM SHALL CONTROL THE LIGHTING IN THAT ROOM.
3. LIGHTING SWITCHES WITH SMALL LETTER DESIGNATIONS SHALL BE USED TO LABEL MULTIPLE ZONES WITHIN A ROOM OR SPACE.
4. UNSWITCHED HOT CONDUCTORS TO EMERGENCY LIGHTING FIXTURES, INCLUDING EXIT SIGNS, ARE NOT SHOWN BUT SHALL BE PROVIDED AS REQUIRED.



H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS / EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)434-2661
CERTIFICATION OF AUTHORIZATION No. 5254
MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG. NO. 32093
ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG. NO. 70379

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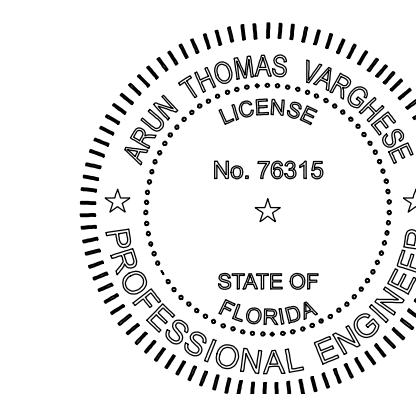


POWER KEYNOTES:

- ① POWER AND DATA CONNECTION FOR USE WITH SMART BOARD. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN.
- ② PROVIDE 3/4" X 4' X 8" PLYWOOD BACKBOARD. PROVIDE 6" CLEARANCE ABOVE FLOOR. ALL POWER AND DATA RECEPTACLES SHALL BE FLUSH WITH BACKBOARD. PROVIDE #6 GROUND IN 3/4" EMT CONDUIT FROM SERVING ELECTRICAL PANEL TO BACKBOARD. COIL 10' SLACK AT BACKBOARD. PROVIDE GROUND BUS BAR (HARGER GBI SERIES) AS REQUIRED BY COMMUNICATIONS CONTRACTOR.
- ③ POWER CONNECTION FOR DOOR ACCESS CONTROLS. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
- ④ POWER AND DATA FOR USE WITH TELEVISION MONITOR. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN.

POWER GENERAL NOTES:

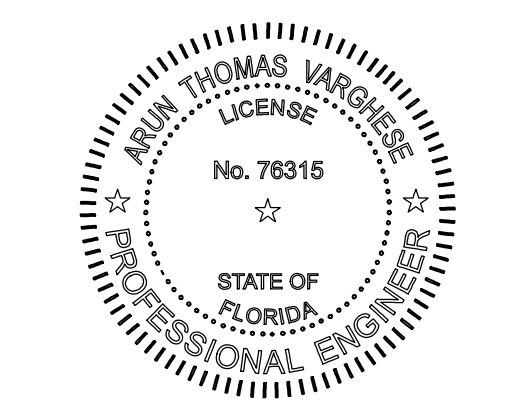
1. ALL RECEPTACLES LOCATED IN COMMON AREAS, SUCH AS CLASSROOMS, BATHROOMS, WAITING AND HALLWAYS, SHALL BE TAMPER RESISTANT.



Electrical Power Plan
3/16"=1'-0"

H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS / EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)434-2661
CERTIFICATION OF AUTHORIZATION No. 5254
MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG No. 32093
ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG No. 70719

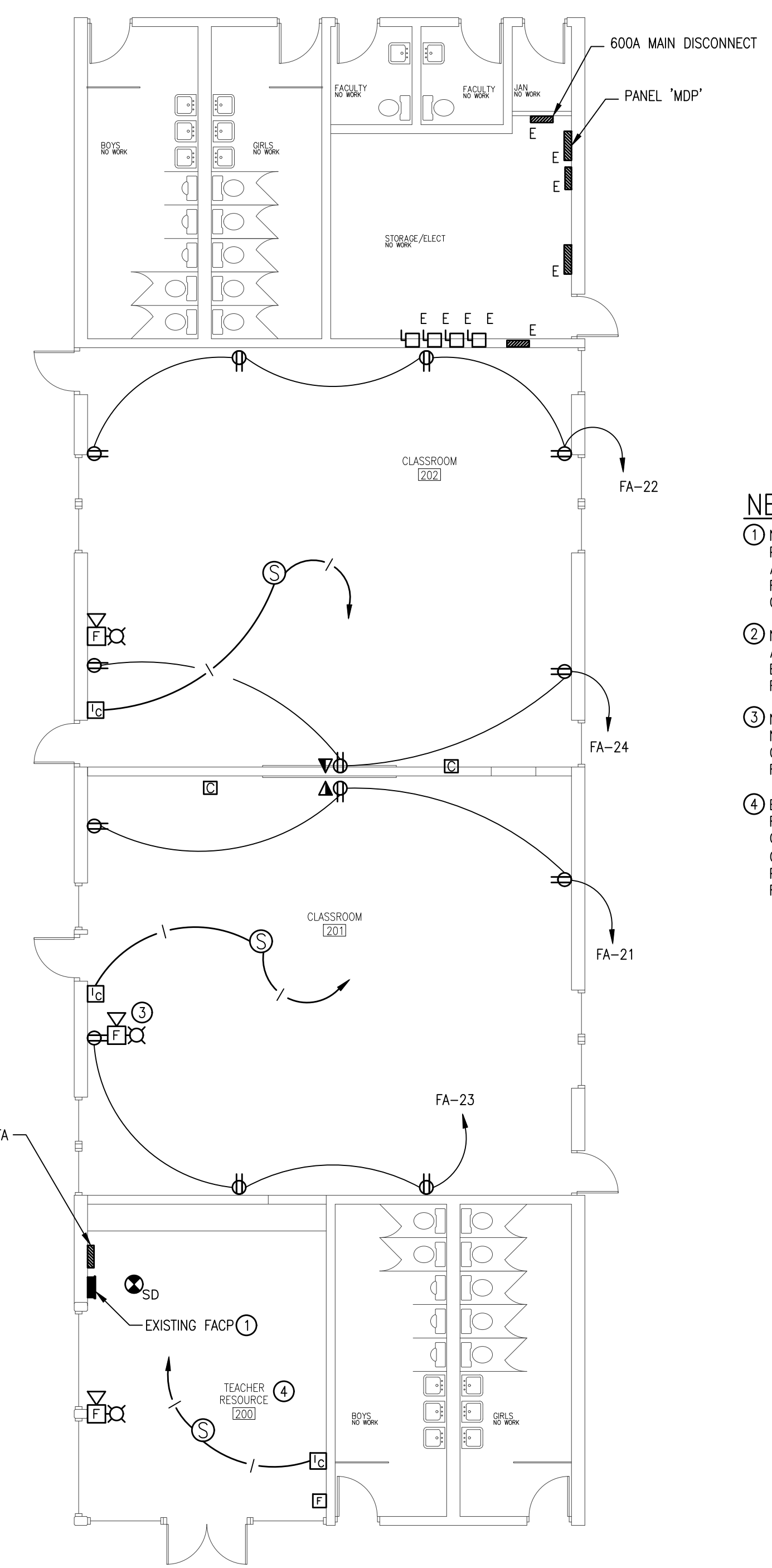
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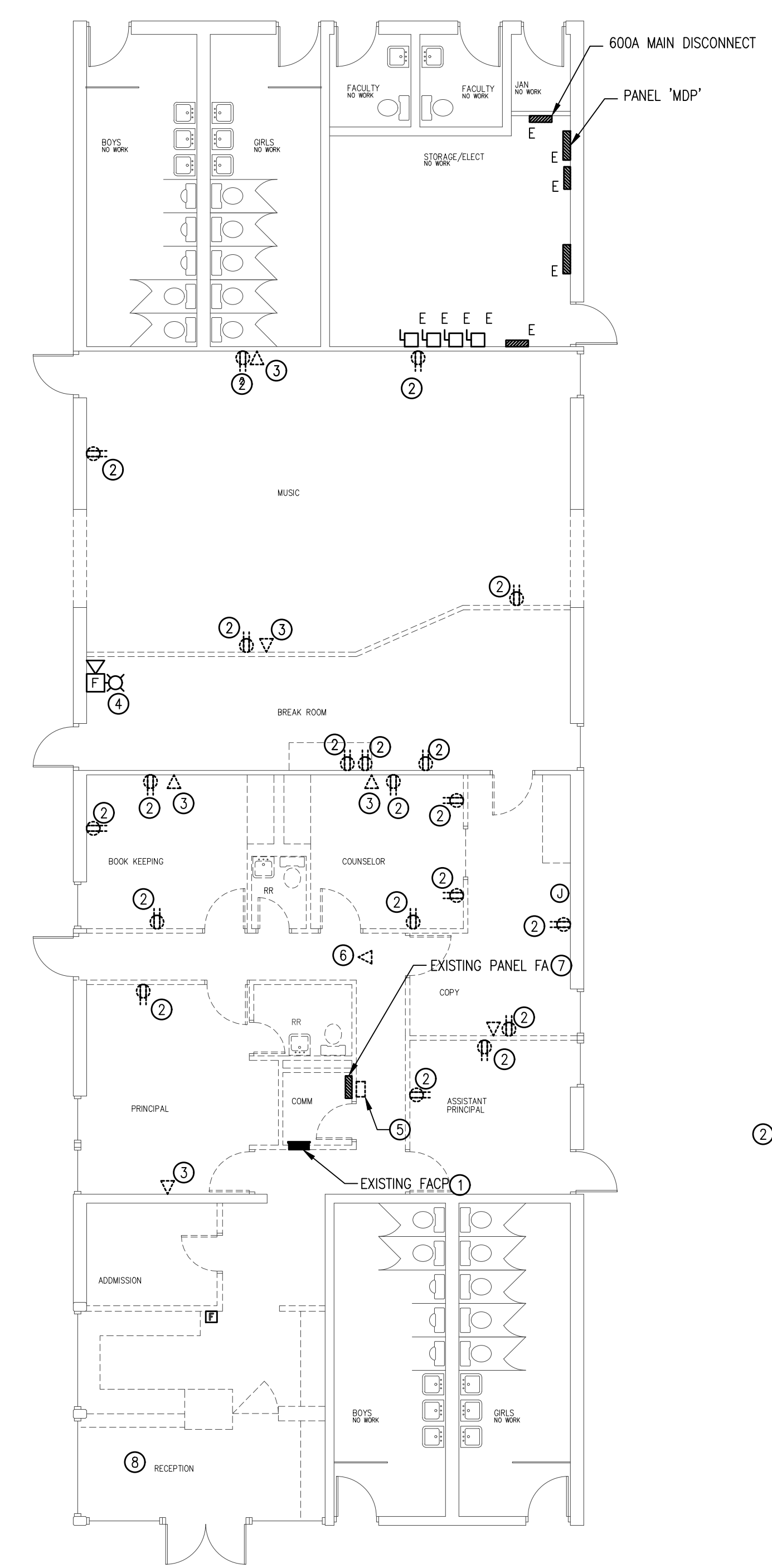
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CONSULTING ENGINEERS / EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)434-2661
CERTIFICATION OF AUTHORIZATION No. 5254
MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG No. 32093
ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG No. 76315



Electrical New Work Plan
SCALE: 1/8"=1'-0"
BUILDING 2



Electrical Demolition Plan
SCALE: 1/8"=1'-0"
BUILDING 2

NEW WORK KEYNOTES:

- NEW LOCATION FOR EXISTING FIRE ALARM CONTROL PANEL. PROVIDE AND INSTALL ANY CONDUIT, WIRING, AND JUNCTION BOXES AS REQUIRED FOR RELOCATION. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO RELOCATION.
- NEW LOCATION FOR EXISTING PANEL FA. PROVIDE AND INSTALL ANY CONDUIT, WIRING, AND JUNCTION BOXES AS REQUIRED FOR RELOCATION. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO RELOCATION.
- NEW LOCATION FOR WALL MOUNTED FIRE ALARM NOTIFICATION DEVICE. PROVIDE AND INSTALL ANY CONDUIT, WIRING, AND JUNCTION BOXES AS REQUIRED FOR RELOCATION.
- EXISTING INTERCOM/PAGING SYSTEM SHALL BE RELOCATED TO THE NEW TEACHER RESOURCE ROOM. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT PRIOR TO ANY ROUGH-IN. PROVIDE AND INSTALL ANY CONDUIT AND WIRING AS REQUIRED FOR RELOCATION.

DEMOLITION KEYNOTES:

- EXISTING FIRE ALARM CONTROL PANEL IS IFF-100 SILENT KNIGHT BY HONEYWELL. EXISTING FIRE ALARM CONTROL PANEL SHALL BE RELOCATED. SEE NEW WORK PLAN ON THIS SHEET FOR MORE INFORMATION.
- EXISTING RECEPTACLE SHALL BE REMOVED IN IT'S ENTIRETY. INCLUDE WITH DEMOLITION THE REMOVAL OF ANY CONDUIT, WIRING, AND JUNCTION BOXES ASSOCIATED WITH DEVICE.
- EXISTING DATA OUTLET SHALL BE REMOVED IN IT'S ENTIRETY. INCLUDE WITH DEMOLITION THE REMOVAL OF ANY CONDUIT, WIRING, AND JUNCTION BOXES ASSOCIATED WITH DEVICE.
- EXISTING FIRE ALARM NOTIFICATION DEVICE SHALL BE RELOCATED. SEE NEW WORK PLAN ON THIS SHEET FOR MORE INFORMATION.
- EXISTING INTERCOM SPEAKER SHALL BE REMOVED IN IT'S ENTIRETY. INCLUDE WITH REMOVAL THE DEMOLITION OF ANY CONDUIT, WIRING, AND JUNCTION BOXES ASSOCIATED WITH DEVICE.
- EXISTING WIRELESS ACCESS POINT SHALL BE REMOVED.
- EXISTING PANEL FA SHALL BE RELOCATED. SEE NEW WORK PLAN ON THIS SHEET FOR MORE INFORMATION.
- EXISTING INTERCOM/PAGING SYSTEM SHALL BE RELOCATED TO THE EXISTING RECEPTION AREA. SEE NEW WORK PLAN.

'E' - DENOTES AN EXISTING DEVICE TO REMAIN.

DEMOLITION PLAN NOTES:

- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SECURING ALL DEVICES, FIXTURES, WIRES, CONDUIT, ETC. ABOVE THE CEILING PRIOR TO CEILING DEMOLITION. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED TO SUCH MATERIALS DURING THE CEILING DEMOLITION PHASE.
- EXACT LOCATIONS FOR EXISTING MECHANICAL UNITS, DEVICES AND BOXES ARE TO BE FIELD VERIFIED.
- ALL PENETRATIONS (NEW AND EXISTING) OF THE FIRE RATED BARRIERS SHALL BE FIRE STOPPED USING U.L. APPROVED METHODS AND MATERIALS.
- ALL EXISTING PANELS ARE TO REMAIN (UNLESS OTHERWISE NOTED). THE ELECTRICAL CONTRACTOR IS TO VERIFY THE BREAKER SIZES, WIRE SIZES, PANEL SIZES, AND PANEL LOADS IN THE FIELD. ALL PANELS ARE TO BE COMPLETELY LABELED AND UPDATED DIRECTORIES INSTALLED. ALL PANELS ARE TO BE PROPERLY GROUNDED PER THE NATIONAL ELECTRIC CODE.
- TERMINATED CIRCUITS THAT ARE NOT USED ON THE NEW WORK PLANS SHALL BE LABELED WITH THE SERVING PANEL AND CIRCUIT NUMBER CLEARLY MARKED ON THE TERMINATING JUNCTION BOX.
- THE PHASING OF ALL WORK IS TO BE COORDINATED WITH OTHER CONTRACTORS (GENERAL, MECHANICAL, ETC.) PRIOR TO PROJECT COMMENCEMENT.
- THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL JUNCTION BOX COVERS AS REQUIRED. ALL WIRE IN THE AREA OF WORK IS TO BE INSTALLED PROPERLY UPON COMPLETION OF THE PROJECT.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL DEVICES, LIGHT FIXTURES AND OTHER EQUIPMENT TO REMAIN ACTIVE - CIRCUITS ASSOCIATED WITH BOTH REMOVED ELECTRICAL WORK AND ELECTRICAL WORK TO REMAIN ARE TO BE EXTENDED WITH WIRE, CONDUIT, BOXES, ETC. (SIZE TO MATCH EXISTING) TO KEEP THE WORK TO REMAIN ACTIVE.
- THE CONTRACTOR SHOULD MAINTAIN THE INTEGRITY OF THE FIRE ALARM SYSTEM IN THE FACILITY AND IN THE CONSTRUCTION AREA AT ALL TIMES.**